

# Sahith Reddy Madara

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**Research Gate:** [https://www.researchgate.net/profile/Sahith\\_Reddy\\_Madara](https://www.researchgate.net/profile/Sahith_Reddy_Madara)

**Personal Website:** [www.sahithreddy-aero.com](http://www.sahithreddy-aero.com)

Tel: +33620759135 • Paris, France • Languages: English, Hindi, Telugu, French

## **Personal Details:**

Date of Birth: 25<sup>th</sup> June 1996 • Place of Birth: Telangana, India

Nationality: Indian • Driving License: Valid UAE • Passport No: Z4917296



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## Education & Credentials

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**Advanced Masters in "Systems Engineering (Aerospace)"**, Sep 2020 – Dec 2021

- [ISAE-SUPAERO](#) (National Higher French Institute of Aeronautics and Space), Toulouse, France
- **Airbus DS industrial project:** *Optimizing the OneWeb Satellite Ground Stations Operational Availability using MBSE*  
**Guide:** Prof. Jean-Charles Chaudemar (ISAE-SUPAERO, University of Toulouse)

**Bachelor of Technology (B. Tech) in "Aerospace Engineering"**, Sep 2014 – Jul 2018

- [AMITY UNIVERSITY](#), Dubai (UAE) Campus – 9.3/10 (CGPA)  
Gold Medallist - "Most Likely to Succeed" Award Winner – First Class with Distinction
- **Join MIT (USA) - Masdar Institute project:** *Design and Analysis of the 3D Printed Radar Absorbing Meta-Materials*  
**Guide:** Prof. Daniel Choi (Khalifa University-KAIST), Prof. Chithirai Pon Selvan (Curtin University)

## **PROFESSIONAL CERTIFICATIONS :**

- KPMG Lean Six Sigma Green Belt Certified (2017) / Certification Number: CH04201713
- TTVS - Spacecraft Techniques and Technology Course (April 2019) CNES - French Space Agency – NSSTC UAEU
- Certificate of Internal SMS (Safety Management System) Training (2016) at Emirates Aviation Services, Dubai
- Behavioural Science Skills Certification: Amity Centre of Behavioural Science, Amity University, Uttar Pradesh (2018)
- English and Communication Skills Certification: Amity Institute of English Studies & Research, Amity University, UP(2018)
- CADD Center Certified Professional – AutoCAD, CATIA V5, ANSYS

**IT, Tools, and 3D Modeling/Analysis:** IBM Rational DOORS, MagicDraw, Vitech CORE, AGI STK, AutoCAD, C/C++/Python, Minitab, CST Microwave Studio, Solid works, MATLAB, Catia, Ansys, Power BI, LaTeX

## **SELECTED - HONORS & AWARDS | EXTRAMURAL ENGAGEMENTS :**

- Awarded the "PIONEER AWARD 2021" from SGAC – United Nations Programme on Space Applications.
- Awarded the 2020 "20 under 35 honor" by the Space and Satellite Professionals International (SSPI), USA
- "24 Under 24 Leaders and Innovators in STEAM and Space Award 2020" by The Mars Generation, USA
- Selected as part of the Future Sustainability Leaders (FSL) Programme 2021 by MASDAR (A Mubadala Company), UAE
- "Research Innovation Award 2020" from the Chairman of Sharjah Electricity and Water Authority (SEWA), UAE
- Elected as the "Fellow of Royal Astronomical Society (FRAS)", London, the UK in 2020.
- "Distinguished Speaker Award" at 4th IEEE Young Professionals in Space (YPinSpace 2019) Conference, DWTC, UAE
- Awarded 2nd Prize at the Royal Aeronautical Society UAE - Young Persons' Lecture Competition, 2019
- Published 28 Technical Research Papers in International Peer-Reviewed Journals & Conferences
- Received 3 Best Paper & Presentation Awards at various Int'l Conferences Throughout the World
- Awarded 2nd place (Prize: 5000 USD) out of 175 teams in the UAE Government Hackathon, Zayed University, 2018
- Outperformed as 100% Merit Scholarship Student - AUD Award - Scholarship worth: 57,500 (USD)
- Awarded 2nd Prize at the Angel Hack 10th Global Hackathon Series - Commit to Your Code, 2017
- Invited Speaker at various events organized by UAE GCAA, MBRSC, UAE Space Agency, Curtin University, SGAC, IAA, Azercosmos, Alleem Business Congress, Global Aerospace Summit (Young Space Leaders Forum), and IEEE

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## Career Experience

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### **Collaborative Consultant (Part-time)**

**Yummet, United States**

**09/2021 – Present**

- Providing energy strategy, technology, and policy advise to a sustainability startup that is developing carbon removal technology for the Elon Musk Carbon Removal X-Prize. Mainly for restoring the Earth's carbon balance with the most-economical and scalable solutions.
- Working on Celestial and Terrestrial Sustainability. Trying to solve problems such as Potable Water for All, Carbon Capture for Curing Climate Change, Taking space industry innovations and reinventing technology for the betterment of humanity.

### **SpaceTech Consultant / Market Analyst (stage)**

**Euroconsult HQ, Paris Office, France**

**05/2021 – 11/2021**

- Consultant provided strategic, technology trends, and market assessment of space-related activities for government and private institutions.
- Developed and managed databases including supply/demand metrics (Start-ups, Launch Contracts, Propulsion, etc).
- Supported consulting assignments through strategic market analysis, stakeholder consultation, and financial forecasts for key satellite industry players to benchmark capacity supply, demand, and most profitable verticals.
- Contribution to Research/Market intelligence reports; Satellites to be Built & Launched in the next 10 years (WS3).
- Projects worked on and supported:
  - 1) CNES Industry 4.0 (Arianespace Reusable Launcher Market Study with new emerging technologies).
  - 2) SENER Electrodynamic Tethers (EDTs) for satellites – Market Feasibility Study & Building Business Case.
  - 3) ESA “Terra Nova – European exploration strategy 2030” Socio-Economic Impact Assessment.
  - 4) NOAA (Space Situational Awareness) of US Department of Commerce.
  - 5) Middle Eastern country (Space Strategy development), ...etc (many more).

### **ITP Industrial Project – MBSE Systems Engineer / In collaboration with ISAE-Supaero**

**Airbus Defence and Space – OneWeb Satellite Constellation, Toulouse, France**

**10/2020 – 04/2021**

- Establishing a new Ground Station for OneWeb Satellite Constellation.
- Identifying Key Stakeholders, V&V, Project Management, System Architecture.
- Defining needs and requirements for relevant stakeholders.
- Applying MBSE methods and tools such as Vitech CORE, MagicDraw, Geeglee, etc.

### **Research Engineer (Aerospace)**

**SAASST - UAE Space Agency projects, Sharjah, UAE**

**1/2019 to 10/2020**

- SHARJAH-SAT-1 CubeSat Project: Co-ordinated the design, manufacture, and testing of aerospace products, comprising spacecraft, payloads, buses, subsystems, software, components, and ground systems.
- I was also responsible for writing research proposals for various aerospace government projects.
- Conceptualized the Integration Sequence of the Satellites and working with the Integration Sub-System towards the Design and Fabrication of the Satellite's structure.
- Helped in building Yahar Tower, the second UAE Meteor Monitoring Network tower, as part of the UAEMMN project, sponsored by the UAE Space Agency (UAESA).
- Along with the Quality Sub-Systems and the ground station, supported in designing and building a Clean Room.
- Assisted in building SAASST ground station which will be operating on three different frequency bands, i.e., a VHF, a UHF, and an S-band antenna.
- I was also part of the Radio Astronomy group on one of the UAE Space Agency project named “Detection of Jovian Radio & Solar Emission at 20.1 MHz with a Decametric Radio Array”.

# Sahith Reddy Madara

Page | 3

## **National Point of Contact - UAE | United Nations Programme on Space Applications**

**Space Generation Advisory Council (SGAC) | <https://spacegeneration.org/regions/middle-east/uae> 6/2019 – Present**

As a UAE National Point of Contact my role is three-fold. Firstly, to connect local students and young professionals passionate about Space to international peers and industry leaders alike so that they can grow their personal networks. Secondly, to provide these future Space leaders with unique opportunities for professional development and lastly, to grow the local pool of young talent who will ultimately be responsible for taking the UAE Space industry to new heights.

This role is an important responsibility, and it has expected me to:

- Enhance cooperation, coordination and communication within the youth and space organisations existing in UAE
- Coordinate local projects of students and young professionals to acquire visibility in the international space field.
- Organize and participate in events that promote space applications, offer input on how space can best be used, and provide a platform for conversation among future generation decision makers with regards to space.

## **Graduate Engineer Trainee**

**Collins Aerospace - United Technologies Corporation, Dubai MRO, UAE**

**6/2018 to 1/2019**

Played a key role as trainee engineer in the Quality, Engineering and EHS departments. Adhered to the Collins Aerospace's rules and regulations, including EASA Part 145, GCAA CAR 145, FAA Part 145, and GACA 145. Spearheaded four key projects, ensuring on-time delivery of all projects to accomplish the desired results. Completed all aerospace works in compliance with the regulatory requirements and customer specifications.

- **Quality Control & Quality Assurance Division Project:** Developed a new Corrective Action Report tracking database to ensure that the Corrective measures taken for every CARs and NCRs are done under a set time frame as well as following up to make sure that the corrective action is in place. Issued the technical data, including Aircraft CMMs, SRMs, AMMs, SBs, Ads, and SNLs. Analysed data for technical records, audits, and CARs.
- **Heat Exchanger Cell – Engineering Division Project:** Renewed the Boeing-777 Heat Exchanger cell to accommodate the Airbus A380 Air Generation Unit (AGU) for the retrofit program of A380 – AGU.
- **Aerostructures – Engineering Division Project:** Performed sheet metal and composite repair on damage aircraft parts in accordance with the company standard, manufacturer and contract specification. Executed FAA mandated material qualification test plans. Enforced the company's FOD, tool control and 5-S programs as well as all safety regulations.
- **EHS, Compliance & Maintenance Project:** Having Strong knowledge of EHS [Management systems fundamentals, documentation and records, culture and objectives, regulatory requirements]; I have achieved excellence in various projects through total discipline & commitment towards work. Conducted the functional risk hazard assessments as well as prepared total protective measures and total productive maintenance chart for various machines.

**Aerospace Research Engineer (Apprentice) | Guide:** Prof. Daniel Choi - <https://bit.ly/31AMo3j>

**Masdar Institute - Cooperative program with Massachusetts Institute of Technology (MIT)**

**A Part of Khalifa University of Science, Technology & Research (KUSTAR)**

**4/2018 to 11/2018**

- **“Meta-materials fabricated by 3D printing for radar absorbing materials (RAM)”** – This project was inspired by Lockheed Martin to increase its Stealth Aircraft capability – So my task was to design microwave-retaining 3D meta-structure by utilizing a new innovation idea and is synthesized by (multi-walled CNT's/ Fe<sub>3</sub>O<sub>4</sub> based composites) based on the CST Microwave Studio and COMSOL Multiphysics simulation results. The fabricated 3D meta-structures, radar absorption performance has been determined using a free-space method with two horn antennas which is present on the measurement system, in the frequency range of 8.4 – 12.4 GHz (X-band).

# Sahith Reddy Madara

Page | 4

- During my spare time I was also working on “**Innovative Cathode for High Performance and Robust Lithium-ion Battery for Space Applications** (UAE SPACE AGENCY sponsored project)”. My main task was to prepare various types of the electrodes and perform its characterizations to compare its results using SEM, XRD, TEM, and Raman spectroscopy.
- Boo Hyun An, Bum Chul Park, Sahith Reddy Madara, Daniel Choi, et al., November 25-30, 2018. “**Design of Microwave Absorption Structures Based on Magnetite Multi-Granule Nanocluster-Multiwall Carbon Nanotube Composite Materials**”. A Meeting of the Materials Research Society, [Symposia: Carbon Nanotubes; Graphenes and Related Nanostructures], Boston, Massachusetts, United States of America (USA). Available at: <https://mrsfall2018.zerista.com/event/member/530902>

## **Aircraft Maintenance Engineer Trainee (Boeing 737-800 Facility)**

**Air India Engineering Services Limited (MRO), Kerala, India**

**08/2017 to 10/2017**

- Responsible for helping in conducting line maintenance including Transit checks, Extended Transit checks; maintaining customer service logs and internal service records in a timely manner, ordering repair parts, and managing cycle times
- Assisted in conducting a pre-capability audit for the Fan Cowl of a Boeing 787 and worked with the engineer to get the capability in place.
- Assisted in disassembling of engines, and inspecting parts, including turbine blades and cylinders for corrosion, wear, warping, cracks, and leaks, using precision measuring instruments, x-rays, and magnetic inspection equipment

## **Quality and Production Engineering Trainee**

**Hydro Middle East (Oil & Gas), Jebel Ali, Dubai**

**08/2016 to 12/2016**

- Worked closely with API Q1 9th Edition, ISO 9001-2008, and ISO 9001-2015 in process of making the QMS Manual for the organization. Assisted in Track, identify and implement updates on our monogram licenses
- Developed Key Performance Indicators, reviewing of Quotations, Customer Purchase Orders, Reviewing Contract, Job opening reports, Quality Assurance Plan, Drawings and preparing API Spec References
- Created the design & development plan, verification and validation, job cards, material certificate, dimension/hardness reports, pressure test reports, final inspection reports, painting reports, certificate of compliance, delivery note and assisted various departments for the annual audit preparation for API.
- Planned and helped in conducting internal audits for ensuring that the QHSE Manual is applied and that the measures taken are effective. Co-ordinates QHSE objectives, monitors their implementation and Analyse monthly QHSE reports issued for all Projects
- Provided responses based on root cause analysis for quality issues, customer complaints and corrective action requests, as directed by Regional Q&SE Manager. Interact with management and staff for effective implementation of quality policies and procedures.

## **Aircraft Maintenance Engineer Trainee**

**Emirates Aviation Services, Dubai Airport (Terminal 2), Dubai, UAE.**

**07/2016 to 08/2016**

Responsible for helping Engineers in Schedule & Unscheduled Maintenance as per the work pack issued by CAMO:

- 50hrs, 100hrs, 500hrs, 1000hrs Inspection
- Line defects & rectification
- Carry out Power plant & Propeller change
- Service Landing Gear
- Aircraft Damage Chart Marking
- Pre-flight inspection

Helped Stores Manager in parts issue & parts receiving into stores; carry out Pre-flight & Post-flight check;

## ANNEXURE

### RESEARCH PAPERS (INTERNATIONAL JOURNAL PUBLICATIONS) | CONFERENCE PROCEEDINGS

2021	Mahima Soota, Dhrumil Patadia, <a href="#">Sahith Reddy Madara</a> , et al. " <b>A review on trajectory designs of potential asteroid mining targets</b> ". Accepted to the conference proceedings of the <i>72nd International Astronautical Congress (IAC) 2021</i> (SCOPUS INDEXED)] - Session: IAF ASTRODYNAMICS SYMPOSIUM.
2021	Salim Alqahtani, Noor Al Hindawi, <a href="#">Sahith Reddy Madara</a> , et al. " <b>Monitoring of the Sunspots and Solar Radio Bursts for the 25th Solar Cycle Using the Sharjah Observatories</b> ". Accepted to the conference proceedings of the <i>72nd International Astronautical Congress (IAC) 2021</i> (SCOPUS INDEXED)] - Session: Science Goals and Drivers for Future Exoplanet, Space Astronomy and Space Physics.
2021	Areej Yousef, Mohammad Rihan, <a href="#">Sahith Reddy Madara</a> , et al. " <b>Correlation between the Jupiter-Io Observations and the Solar Radio Bursts using the Sharjah Decametric Radio Telescope (SDRT)</b> ". Accepted to the conference proceedings of the <i>72nd International Astronautical Congress (IAC) 2021</i> (SCOPUS INDEXED)] - Session: Science Goals and Drivers for Future Exoplanet, Space Astronomy and Space Physics.
2021	Emrah Kalemci, Antonios Manousakis, Ilias Fernini, <a href="#">Sahith Reddy Madara</a> , et al. " <b>Scientific Contribution of Sharjah-Sat-1 to X-ray Observations</b> ". Accepted to the conference proceedings of the <i>72nd International Astronautical Congress (IAC) 2021</i> (SCOPUS INDEXED)] - Session: Small Space Science Missions.
2020	Ilias Fernini, Mohammad Rihan, Areej Yousef, <a href="#">Sahith Reddy Madara</a> , Fatima AlAydarooos, " <b>Detection of Jovian Radio Emission at 20.1 MHz with a Decametric Radio Array</b> " (UAE Space Agency - Funded Project). [Published in the conference proceedings of the <i>71st International Astronautical Congress (IAC) 2020</i> (SCOPUS INDEXED)] – Session: Science Goals and Drivers for Future Exoplanet, Space Astronomy and Space Physics. Link: <a href="https://www.iafastro.net/iac/paper/id/56687/summary/">https://www.iafastro.net/iac/paper/id/56687/summary/</a>
2020	Ibrahim Alsabt, Tarifa Al Kaabi, <a href="#">Sahith Reddy Madara</a> , Ilias Fernini, et al. " <b>SharjahSat-1 Thermal Analysis for Orbit-Launch Selection</b> ". [Published in the conference proceedings of the <i>71st International Astronautical Congress (IAC) 2020</i> (SCOPUS INDEXED)] - Session: Space Environmental Effects and Spacecraft Protection. Link: <a href="http://iafastro.directory/iac/paper/id/58580/summary/">http://iafastro.directory/iac/paper/id/58580/summary/</a>
2020	Tarifa AlKaabi, Ibrahim Alsabt, <a href="#">Sahith Reddy Madara</a> , Ilias Fernini, Bogac Karabulut, Alim Rüstem Aslan, Hamid Al Naimiy, " <b>SAASST Ground Station: Satellite Tracking and Control for High Data Rates</b> ". [Published in the conference proceedings of the <i>71st International Astronautical Congress (IAC) 2020</i> (SCOPUS INDEXED)] - Session: Ground Operations - Systems and Solutions. Link: <a href="http://iafastro.directory/iac/paper/id/58579/summary/">http://iafastro.directory/iac/paper/id/58579/summary/</a>
2020	P.S. Samuel Ratna Kumar, S. John Alexis, M. Saravana Mohan, <a href="#">Sahith Reddy Madara</a> , " <b>Vibration – Impact study on AlMg4.5Mn reinforced nanoclay composites</b> ", <i>ELSEVIER Materials Today</i> (SCOPUS INDEXED). Jan 2020, DOI: <a href="https://doi.org/10.1016/j.matpr.2020.01.096">10.1016/j.matpr.2020.01.096</a>
2020	Chithirai Pon Selvan, Divya Midhunchakkaravarthy, Swaroop Ramaswamy Pillai, <a href="#">Sahith Reddy Madara</a> . " <b>A Mathematical Modelling of Abrasive Waterjet Machining on Ti-6Al-4V using Artificial Neural Networks</b> ", <i>ELSEVIER Materials Today</i> (SCOPUS INDEXED). Jan 2020, DOI: <a href="https://doi.org/10.1016/j.matpr.2019.12.215">10.1016/j.matpr.2019.12.215</a>

# Sahith Reddy Madara

Page | 6

2020	Arulmani L, Shridharmurthy H N, Chithirai Pon Selvan M, <a href="#">Sahith Reddy Madara</a> , “ <b>Hot Powder Forging Behavior Analysis of Sintered AISI 8740 PM Steels for Automotive Application</b> ”, <i>ELSEVIER Materials Today</i> (SCOPUS INDEXED). Feb 2020. DOI: <a href="https://doi.org/10.1016/j.matpr.2020.01.079">10.1016/j.matpr.2020.01.079</a>
2020	<a href="#">Sahith Reddy Madara</a> , Swaroop Ramaswamy Pillai, Chithirai Pon Selvan, Jens Van Heirle, “ <b>Modelling of surface roughness in abrasive waterjet cutting of Kevlar 49 composite using artificial neural network</b> ”, <i>ELSEVIER Materials Today</i> (SCOPUS INDEXED). March 2020. DOI: <a href="https://doi.org/10.1016/j.matpr.2020.02.868">10.1016/j.matpr.2020.02.868</a>
2019	<a href="#">Sahith Reddy Madara</a> , Tarifa Mohammed Al Kaabi, Prof. Ilias Fernini, Dr. Antonios Manousakis, Dr. Muhammad Mubasshir Shaikh, Prof. Alim Rüstem Aslan, Prof. Emrah Kalemci, “ <b>Development of SHARJAH-SAT-1: An Improved X-ray Detector Onboard a 3U CubeSat</b> ” [11th European CubeSat Symposium 2019 – Collaboration with Luxembourg Space Agency and von Karman Institute for Fluid Dynamics]. Link: <a href="https://cubesatsymposium.eu/index">https://cubesatsymposium.eu/index</a>
2019	Bilal Shabandri, <a href="#">Sahith Reddy Madara</a> , Piyush Maheshwari. (2020) “ <b>IoT-Based Smart Tree Management Solution for Green Cities</b> ”. In: Pattnaik P., Kumar R., Pal S. (eds) <i>Internet of Things and Analytics for Agriculture</i> , Volume 2. Studies in Big Data 67. pp. 181-199, <i>Springer Nature</i> , Singapore. DOI: <a href="https://doi.org/10.1007/978-981-15-0663-5_9">10.1007/978-981-15-0663-5_9</a>
2019	Ishu Sharma, <a href="#">Sahith Reddy Madara</a> , Pankaj Sharma, “ <b>Study of Tauc gap, optical density and penetration depth of vacuum evaporated Pb<sub>15</sub>Se<sub>85-x</sub>Ge<sub>x</sub> (x = 0, 3, 6 at. %) thin films supported by chemical band approach and physical parameters</b> ”. <i>ELSEVIER Materials Today</i> (SCOPUS INDEXED). Nov 2019, DOI: <a href="https://doi.org/10.1016/j.matpr.2019.10.023">10.1016/j.matpr.2019.10.023</a>
2019	Swaroop Ramaswamy Pillai, <a href="#">Sahith Reddy Madara</a> , Chithirai Pon Selvan, “ <b>Predication of Kerf width and Surface Roughness in Waterjet Cutting Using Neural Networks</b> ”. <i>IOP Journal of Physics: Conference Series</i> (SCOPUS INDEXED), Volume 1276, pp. 1-10, International Conference on Recent Advances in Fluid and Thermal Sciences, BITS PILANI, Dubai, UAE. DOI: <a href="https://doi.org/10.1088/1742-6596/1276/1/012011">10.1088/1742-6596/1276/1/012011</a>
2019	Swaroop Ramaswamy Pillai, Chithirai Pon Selvan, <a href="#">Sahith Reddy Madara</a> , “ <b>Design of PID Control to Improve Efficiency of Suspension System in Electric Vehicles</b> ”. <i>2019 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE)</i> . DOI: <a href="https://doi.org/10.1109/ICCIKE47802.2019.9004322">10.1109/ICCIKE47802.2019.9004322</a>
2019	Chithirai Pon Selvan, Swaroop Ramaswamy Pillai, <a href="#">Sahith Reddy Madara</a> , Divya Midhunchakkaravarthy. “ <b>Investigation on Abrasive Waterjet Machining Conditions of Mild Steel using Artificial Neural Network</b> ”. Volume 19, Part 2, 2019, Pages 233-239, <i>ELSEVIER Materials Today</i> (SCOPUS INDEXED). DOI: <a href="https://doi.org/10.1016/j.matpr.2019.06.757">10.1016/j.matpr.2019.06.757</a>
2019	<a href="#">Sahith Reddy Madara</a> , Sarath Raj N.S, Jerrin Thadathil Varghese, and Chithirai Pon Selvan, 2019. “ <b>Experimental Investigations on Abrasive Waterjet Machining of Hybridized Kevlar With Jute Fiber Reinforced Epoxy Composite Using Taguchi &amp; ANOVA Approach</b> ”. <i>IEEE Explore</i> (SCOPUS INDEXED), IEEE ASET'19 - International Conference on Advanced Materials, Design and Manufacturing Conference, Dubai, UAE, pp. 1-9. DOI: <a href="https://doi.org/10.1109/ICASET.2019.8714323">10.1109/ICASET.2019.8714323</a>
2019	<a href="#">Sahith Reddy Madara</a> , Chithirai Pon Selvan, Swaroop Ramaswamy, 2019. “ <b>Impact of Process Parameters on Surface Roughness of Hastelloy using Abrasive Waterjet Machining Technology</b> ”. <i>International Journal of Recent Technology and Engineering (IJRTE)</i> , (SCOPUS INDEXED), ISSN: 2277-387, Volume-7, Issue-5S2, pp. 419 – 425, Available at: <a href="https://www.ijrte.org/download/volume-7-issue-5s2/">https://www.ijrte.org/download/volume-7-issue-5s2/</a>

# Sahith Reddy Madara

Page | 7

<p><b>2019</b></p>	<p>Alim Rüstem Aslan, Ilias Fernini, Antonios Manousakis, Mubasshir Shaikh, <a href="#">Sahith Reddy Madara</a>, Tarifa Al-Kaabi et al. <b>“Space Technology Capacity Building in Support of SDG 2030 through CubeSat Sharjah-Sat-1”</b>, <i>IEEE Explore</i> (SCOPUS INDEXED), RAST 2019: AIAA &amp; IEEE 9th International Conference on Recent Advances in Space Technologies, Istanbul, Turkey. DOI: <a href="https://doi.org/10.1109/RAST.2019.8767863">10.1109/RAST.2019.8767863</a></p>
<p><b>2019</b></p>	<p>Chithirai Pon Selvan, <a href="#">Sahith Reddy Madara</a>, Swaroop Ramaswamy Pillai, Ramesh Vandanapu, 2019. <b>“In-Depth Evaluation of Process Variables in Abrasive Waterjet Cutting of Alumina Ceramics”</b>. <i>IEEE Explore</i> (SCOPUS INDEXED), IEEE International Conference on Advanced Materials, Design and Manufacturing Conference, Dubai, UAE, pp. 1-4. DOI: <a href="https://doi.org/10.1109/ICASET.2019.8714504">10.1109/ICASET.2019.8714504</a></p>
<p><b>2018</b></p>	<p>Boo Hyun An, Bum Chul Park, <a href="#">Sahith Reddy Madara</a>, Daniel Choi, et al., November 25-30, 2018. <b>“Design of Microwave Absorption Structures Based on Magnetite Multi-Granule Nanocluster-Multiwall Carbon Nanotube Composite Materials”</b>. <i>A Meeting of the Materials Research Society</i>, [Symposia: Carbon Nanotubes; Graphenes and Related Nanostructures], Boston, Massachusetts, USA. Available at: <a href="https://mrsfall2018.zerista.com/event/member/530902">https://mrsfall2018.zerista.com/event/member/530902</a></p>
<p><b>2018</b></p>	<p><a href="#">Sahith Reddy Madara</a>, Sarath Raj. N. S, Chithirai Pon Selvan, 2018. <b>“Review of Research and Developments in Self-Healing Composite Materials”</b>. <i>IOP Conference Series: Materials Science and Engineering</i>, (SCOPUS INDEXED), International Conference on Recent Advance in Materials &amp; Manufacturing Technologies, Dubai, UAE, Volume 346, pp. 1-16. DOI: <a href="https://doi.org/10.1088/1757-899X/346/1/012011">10.1088/1757-899X/346/1/012011</a></p>
<p><b>2018</b></p>	<p>Chithirai Pon Selvan; <a href="#">Sahith Reddy Madara</a>; S Sampath; N S Sarath Raj, 2018. <b>“Effects of Process Parameters on Depth of Cut in Abrasive Waterjet Cutting of Phosphate Glass”</b>. <i>IEEE Xplore</i>, (SCOPUS INDEXED), IEEE International Conference on Advanced Materials, Design and Manufacturing, Dubai, UAE, pp. 1-6.; DOI: <a href="https://doi.org/10.1109/ICASET.2018.8376868">10.1109/ICASET.2018.8376868</a></p>
<p><b>2018</b></p>	<p>Chithirai Pon Selvan, <a href="#">Sahith Reddy Madara</a>, Swaroop Ramaswamy Pillai, Ramesh Vandanapu, 2018. <b>“Solar hybrid vehicles for environmental protection”</b>. <i>IEEE Xplore</i>, (SCOPUS INDEXED), IEEE International Conference on Sustainable Environment and Urban Infrastructure, Dubai, UAE, pp.1-6; DOI: <a href="https://doi.org/10.1109/ICASET.2018.8376761">10.1109/ICASET.2018.8376761</a></p>
<p><b>2018</b></p>	<p>Santhosh Goud Sammeta; <a href="#">Sahith Reddy Madara</a>, 2018. <b>“Recent Trends in RFID Technologies and Its Impact on Universities”</b>. <i>IEEE Xplore</i>, (SCOPUS INDEXED), IEEE International Conference on Innovations in Engineering Education, Abu-Dhabi, UAE, pp.1-6. DOI: <a href="https://doi.org/10.1109/ICASET.2018.8376922">10.1109/ICASET.2018.8376922</a></p>
<p><b>2018</b></p>	<p><a href="#">Sahith Reddy Madara</a>; Piyush Maheshwari; Chithirai Pon Selvan, 2018. <b>“Future of Millennial Generations: A Review”</b>. <i>IEEE Xplore</i>, (SCOPUS INDEXED), IEEE International Conference on Innovations in Engineering Education, Dubai, UAE, pp. 1-4. DOI: <a href="https://doi.org/10.1109/ICASET.2018.8376927">10.1109/ICASET.2018.8376927</a></p>
<p><b>2018</b></p>	<p>Santhosh Goud Sammeta, <a href="#">Sahith Reddy Madara</a>, 2018. <b>“Impact of Information Technologies on Library Services in Educational Institutions”</b>. <i>IEEE Explore</i>. (SCOPUS INDEXED), International Conference on Infocom Technologies and Unmanned Systems (Trends and Future Directions) (ICTUS), Dubai, UAE, pp. 662–668; DOI: <a href="https://doi.org/10.1109/ICTUS.2017.8286091">10.1109/ICTUS.2017.8286091</a></p>
<p><b>2017</b></p>	<p><a href="#">Sahith Reddy Madara</a>, Insha Mearaj, Chithirai Pon Selvan, 2017. <b>“Surveillance Governance for Aircrafts with Point Satellite Constellation Matrix Simulation for Collision Detection and Avoidance”</b>. <i>International Journal of Innovative Research in Technology</i> (SCOPUS INDEXED), Volume 3, Issue 12, 134-151, ISSN 2349-6002, Impact Factor: 5.841. Available at: <a href="http://ijirt.org/Issue8/sahith-reddy">http://ijirt.org/Issue8/sahith-reddy</a></p>

# Sahith Reddy Madara

Page | 8

2017	<a href="#">Sahith Reddy Madara</a> , Jerrin Thadathil Varghese, Chithirai Pon Selvan, 2017. <b>“Design and Fabrication of Low-Cost Open Circuit Subsonic Wind Tunnel”</b> . <i>International Journal of Innovative Technology and Research</i> , (SCOPUS INDEXED), Volume 5, Issue 3, 6154-6161, <b>Available at:</b> <a href="http://www.ijitr.com/index">http://www.ijitr.com/index</a>
2017	Jerrin Thadathil Varghese, <a href="#">Sahith Reddy Madara</a> , Chithirai Pon Selvan, 2017. <b>“Review on the Characteristical Behavior of Advanced 3D Spacer Composites”</b> . <i>International Journal of Mechanical and Production Engineering Research and Development</i> , (SCOPUS INDEXED) Volume 7, Issue 6, pp. 387-394, <b>DOI:</b> <a href="https://doi.org/10.24247/ijmperdddec201743">https://doi.org/10.24247/ijmperdddec201743</a>
2017	<a href="#">Sahith Reddy Madara</a> , Chithirai Pon Selvan, 2017. <b>“Review of Recent Development in 3-D Printing of Turbine Blades”</b> . <i>European Journal of Advances in Engineering and Technology</i> , Volume 4, Issue 7, 497-509, <b>Available at:</b> <a href="https://ejaet.com/archive/volume-4-issue-7-2017/">https://ejaet.com/archive/volume-4-issue-7-2017/</a>
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2017	<a href="#">Sahith Reddy Madara</a> , Sarath Raj N.S, 2017. <b>“Maglev Using Green Aviation Concept in Aviation Industry”</b> . <i>Global Journal of Advanced Engineering Technologies</i> , Volume 6, Issue 2, Cosmos Impact Factor: 3.69, pp. 127-136. <b>Available at:</b> <a href="http://www.gjaet.com/category/volume-6-issue2/">http://www.gjaet.com/category/volume-6-issue2/</a>
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2017	<a href="#">Sahith Reddy Madara</a> , Chithirai Pon Selvan, S. S. Sampath, 2017. <b>“Review of Topical Enlargement in Laser Beam Machining”</b> . <i>International Journal of Engineering Research and Modern Education</i> , [Online]. Volume 2, Issue 2, 6-14, Impact Factor: 6.525, Available at: <b>DOI :</b> <a href="http://doi.org/10.5281/zenodo.837875">http://doi.org/10.5281/zenodo.837875</a> , <b>UOI License :</b> <a href="http://u-o-i.org/1.01/07081988-IJERME-/66902401">http://u-o-i.org/1.01/07081988-IJERME-/66902401</a>

## HONORS & AWARDS | INVITED TALKS | EXTRAMURAL ENGAGEMENTS | VOLUNTEERING

2021	Received the <b>“Pioneer Award 2021”</b> from <b>Space Generation Advisory Council (SGAC - United Nations Programme on Space Applications), Vienna, Austria</b> . Got selected from over 15,000+ members in over 150 countries.  <b>Link:</b> <a href="https://spacegeneration.org/pioneer-award-sahith-reddy-madara">https://spacegeneration.org/pioneer-award-sahith-reddy-madara</a>
2021	Selected as part of the <a href="#">Future Sustainability Leaders (FSL) Programme</a> (2020-2021) – 1 Year Global Program by MASDAR (A Mubadala Company), Abu-Dhabi, UAE
2021	Selected as a <b>Technical Member / Co-Chair - IAF Space Traffic Management (STM) TC.26 Committee of the International Astronautical Federation</b> , Paris, France / <b>Collab:</b> CNES, DLR, NASA, and JAXA.  <b>Link:</b> <a href="https://www.iafastro.org/about/iaf-committees/technical-committees/space-traffic-management-committee.html">https://www.iafastro.org/about/iaf-committees/technical-committees/space-traffic-management-committee.html</a>



# Sahith Reddy Madara

Page | 9

2020	<p><b>Youngest person from the UAE, Middle East, and Asia region to be awarded and included in the 2020 "20 under 35 - Space and Satellite Professionals International (SSPI)" USA list of young professionals and entrepreneurs in the space and satellite industry who are expected to have a profound impact on our industry in the future.</b></p> <p>Link: <a href="https://www.sspi.org/cpages/sahith-reddy-madara">https://www.sspi.org/cpages/sahith-reddy-madara</a></p>
2020	<p>Youngest UAE resident to be elected as the "<b>2020 Fellow of the Britain's Royal Astronomical Society (FRAS)</b>", London, UK.</p> <p><i>"Sharjah resident wins three international recognitions for space research". In Khaleej Times news</i></p> <p>Link: <a href="http://www.khaleejtimes.com/wknd/spotlight/sharjah-resident-wins">www.khaleejtimes.com/wknd/spotlight/sharjah-resident-wins</a></p>
2020	<p>It is my pleasure to be mentioned in the News related to the Historic UAE Emirates Hope Mars Mission 2020 in Dubai, UAE. <i>In Khaleej Times</i>. Title: "<b>Research engineer wants to evaluate data Hope gets in 2021</b>"</p> <p><b>Khaleej Times Official Web Source:</b> <a href="https://www.khaleejtimes.com/hope-mission-to-mars/young-rocket-scientists-decode-what-hope-probe-launch-means-for-students-">https://www.khaleejtimes.com/hope-mission-to-mars/young-rocket-scientists-decode-what-hope-probe-launch-means-for-students-</a></p> <p><b>KT pressreader:</b> <a href="https://www.pressreader.com/uae/khaleej-times/20200803/281672552280926">https://www.pressreader.com/uae/khaleej-times/20200803/281672552280926</a></p>
2020	<p>1st Person from the UAE to be Nominated and Awarded the "<b>24 Under 24 Leaders and Innovators in STEAM and Space Award 2020</b>" by <b>The Mars Generation, USA</b> in collaboration with <b>Aerojet Rocketdyne (American rocket and missile propulsion manufacturer), USA.</b></p> <p><b>Official Link:</b> <a href="http://www.themarsgeneration.org/press-release-the-mars-generation">www.themarsgeneration.org/press-release-the-mars-generation</a></p>
2020	<p>Awarded the recognition of "<b>SGAC Member of the Month (MoM)</b>" by the <b>Executive Committee of Space Generation Advisory Council, Austria</b> - February 2020 for my non-profit and STEAM contributions towards the organization. I got selected in ( 13,000 Members from 150 Countries ).</p> <p><b>Official SGAC Web Link:</b> <a href="https://spacegeneration.org/mom-february-2020">https://spacegeneration.org/mom-february-2020</a></p>
2020	<p><b>INVITED GUEST SPEAKER:</b> At the <b>Alleem Business Congress (5th Annual Water &amp; Energy Congress Week)</b> on 11th February 2020 Tuesday at Radisson Blu Hotel, Sharjah, UAE. <b>My talk was on the topic:</b> "In the Future, Will People Have Enough Water and Energy to Live?"</p>
2020	<p>Represented as an esteemed <b>Delegate &amp; Speaker</b> (from UAE) on behalf of <b>Space Generation Advisory Council (SGAC)</b> at the <b>57th session of the United Nations COPUOS Scientific and Technical Subcommittee</b> at the Vienna International Center in Austria from 3rd February – 14th February 2020.</p> <p><b>UNOOSA Link:</b> <a href="https://www.unoosa.org/res/oosadoc/data/documents/2020/">https://www.unoosa.org/res/oosadoc/data/documents/2020/</a></p>
2020	<p>Honored to receive the "<b>RESEARCH INNOVATION AWARD</b>" from <b>Alleem Business Congress (5th Annual Water &amp; Energy Congress Week)</b> which was held at the <b>Sharjah Chamber of Commerce and Industry</b>, Sharjah, UAE on 12th February 2020. And, received a token of appreciation from H.E. Dr. Rashid Alleem - Chairman of Sharjah Electricity and Water Authority (SEWA) &amp; Founder of Alleem Knowledge Center. <b>Link 1:</b> <a href="http://www.alleem.com/portfolio-items/sahith-reddy/?portfolioCats=39">http://www.alleem.com/portfolio-items/sahith-reddy/?portfolioCats=39</a> <b>Link 2:</b> <a href="https://www.instagram.com/p/B8gCuR7Jisa/?utm_source=ig_web_copy_link">https://www.instagram.com/p/B8gCuR7Jisa/?utm_source=ig_web_copy_link</a></p>

# Sahith Reddy Madara

Page | 10

<p><b>2020</b></p>	<p>Appointed as the <b><u>"SPACE EDUCATION - GOODWILL AMBASSADOR"</u></b> for <b>National Endeavour for Student Transformation (NEST) – An Initiative by The Akshaya Patra Foundation</b> on 1<sup>st</sup> January 2020, they aspire to provide access to quality education. (Akshaya Patra is an Indian NGO that runs the world's largest Mid-Day Meal Programme. Till now they have served over 3 Billion Meals).  <b>Link:</b> <a href="https://www.instagram.com/p/B8GAbSKloSj/">https://www.instagram.com/p/B8GAbSKloSj/</a></p>
<p><b>2019</b></p>	<p><b><u>INVITED SPEAKER:</u></b> Represented on behalf of <b>Space Generation Advisory Council (SGAC)</b> at the <b>"22nd Humans in Space Symposium (HIS)"</b> - organized by the International Academy of Astronautics (IAA) in collaboration with Mohammed Bin Rashid Space Centre in Dubai, UAE from November 11th - 14th 2019.</p>
<p><b>2019</b></p>	<p><b><u>DISTINGUISHED SPEAKER AWARD:</u></b> At the <b>Young Professionals in Space (YPinSpace) Conference</b> organized by <b>Mohammed Bin Rashid Space Centre (MBRSC), Telecommunications Regulatory Authority - TRA (Government of Dubai) and IEEE</b>, 4th – 6th Nov 2019, Dubai World Trade Center, UAE   My talk was on the topic <b>"Development of SHARJAH-SAT-1: An Improved X-ray Detector Onboard a 3U CubeSat"</b>   <b>Speakers Link:</b> <a href="https://ypinspace.ae/speakers/">https://ypinspace.ae/speakers/</a>  <b>Link:</b> <a href="https://www.instagram.com/p/B4hF_ezJyNk/">https://www.instagram.com/p/B4hF_ezJyNk/</a></p>
<p><b>2019</b></p>	<p><b><u>INVITED SPEAKER &amp; JURY MEMBER:</u></b> Represented on behalf of <b>Space Generation Advisory Council (SGAC)</b> for the <b>NASA Space App Challenge</b> (Organized by Azercosmos, jointly with US Embassy in Azerbaijan) from October 18-20, 2019 at ADA University, Baku, Azerbaijan.   <b>Link:</b> <a href="https://spaceapps.space.az/">https://spaceapps.space.az/</a>   <a href="https://2019.spaceappschallenge.org/locations/baku">https://2019.spaceappschallenge.org/locations/baku</a>  <b>Press Release:</b> <a href="https://azercosmos.az/index.php/media-news/212?lang=en">https://azercosmos.az/index.php/media-news/212?lang=en</a></p>
<p><b>2019</b></p>	<p><b>Appointed as the UAE's National Point of Contact</b> for <b>Space Generation Advisory Council (SGAC)</b> - United Nations Programme on Space Applications, June 2019 – June 2021 (2 Years)  <b>Link 1:</b> <a href="https://spacegeneration.org/regions/middle-east/uae">https://spacegeneration.org/regions/middle-east/uae</a>  <b>Link 2:</b> <a href="https://www.instagram.com/p/B1_FQj8Jarq/">https://www.instagram.com/p/B1_FQj8Jarq/</a></p>
<p><b>2019</b></p>	<p><b>Certificate of Appreciation for participating as an <u>INVITED SPEAKER</u> at the 2 events organized by:</b>   <b>1) Sharjah Education Council (Government of Sharjah)</b> – Space Ambassadors Workshop - My talk was on the topic "Aerospace Materials and Structures" on July 8, 2019   <b>2) UAE General Civil Aviation Authority (GCAA)</b> - Future Aviators workshop - My talk was on the topic "Advancement in CubeSat Technologies" on July 9, 2019</p>
<p><b>2019</b></p>	<p><b><u>INVITED SPEAKER:</u></b> for Panel Discussions with Industry Experts <b>"Impact of the 4th Industrial Revolution on Society and Individuals &amp; How to Shape and Publish a Successful Research Paper – Springer Nature"</b> - Graduate Panel Presentation at the Curtin University, Dubai Campus, UAE on 10th April 2019.</p>
<p><b>2019</b></p>	<p><b>Awarded Runners up (2nd Prize) at the Royal Aeronautical Society (RAeS) UAE Branch - Young Persons' Lecture Competition</b>, which was held at Emirates Aviation Collage, Dubai, UAE on 5th February 2019.</p>
<p><b>2018</b></p>	<p><b><u>BEST PRESENTATION AWARD:</u></b> <b>"Constructing Polymer 3-Dimensional Composite Meta-Structures for Electromagnetic absorption for Stealth Applications"</b> in 16th World Conference on Applied</p>

# Sahith Reddy Madara

Page | 11

	Science, Engineering and Technology, which was organized by Institute for Engineering Research and Publication (IFERP) & SCOPUS, Dubai, UAE on December 2018.
2018	<b>Gold Medalist - Aerospace Engineering - Batch of 2014 - 2018 (&amp;) "MOST LIKELY TO SUCCEED" Award Winner</b> - Amity University Recognition Awards, Nov 2018, Dubai, UAE
2018	<b>BEST PAPER AWARD: "Impact of Process Parameters on Surface Roughness of Hastelloy using Abrasive Waterjet Machining Technology"</b> in 12th World Conference on Applied Science, Engineering and Technology, which was organized by Institute for Engineering Research and Publication (IFERP) & SCOPUS, Dubai, UAE on September 21st and 22nd, 2018.
2018	<b>INVITED SPEAKER: for Round Table Discussion on the topic "Challenges and Solutions of Future Generation in Space Sector" at Global Aerospace Summit</b> (Young Space Leaders Forum & Next Gen Leaders Forum) which was hosted by Mubadala & UAE Space Agency at St. Regis Saadiyat Island Resort, Abu-Dhabi, from 30th April - 2nd May 2018.
2018	<b>Awarded 2nd place (Prize: 5000 USD) out of 175 teams in the UAE Hackathon at Zayed University, Dubai.</b> Award presented by H.E. Ohood Al Roumi - Minister of State for Happiness and Wellbeing - United Arab Emirates, March 4th, 2018, Twitter: <a href="https://lnkd.in/fej7RC8">https://lnkd.in/fej7RC8</a>
2018	<b>Certificate of Appreciation for volunteering at Amity University Dubai Library.</b> Volunteered and Organized various events at the Amity University Dubai Library during the year 2014-2018. <b>Won 2nd Prize at the Week of Reading (WOR),</b> March 4-8, 2018, 5th day – Closing Ceremony & Prize Distribution. <b>I have given a book talk about the topic "Alibaba: The House That Jack Ma Built" - Book by Duncan Clark.</b>
2017	<b>Elected as the Vice President - Society of Automobile Engineers &amp; Chair (President) of ASHRAE Falcon Chapter (UAE Section)</b> – AUD Collegiate Chapter - Students Union, January 2017 – July 2018
2017	<b>Certificate of Appreciation for organizing "Green Energy Conservation for Sustainable Future – A Research Pitch Competition" under ASHRAE Falcon Chapter UAE Section</b> conducted at Amity University Dubai, UAE – December 24th, 2017
2017	<b>BEST PAPER AWARD: A methodological research paper titled "Impact of Information Technologies on Library Services in Educational Institutions"</b> in IEEE International Conference on Infocom Technologies and Unmanned Systems at Amity University, Dubai Campus – December 18th to 20th, 2017
2017	<b>Organizing Member of International Workshop on "Recent Trends in Solar Power Generation and Energy Harvesting"</b> from March 27th to 29th, 2017 at Amity University - Dubai Campus, Dubai, UAE conducted by Amity University and The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre).
2017	<b>2nd place (Amazon Web Services Prize: \$200 in AWS Credits per person through AWS Activate) at the Angel Hack 10th Global Hackathon Series</b> - Commit to Your Code conducted by ATECH WORLD and GD WORLD GAMD EXPO on 10 – 11 May 2017 at ADNEC, Abu Dhabi, UAE. Developer Code: <a href="https://github.com/sahithreddymadara">24687753</a>

# Sahith Reddy Madara

Page | 12

2017	<b>Certificate of Appreciation from International Conference on 'Accelerators in Materials and Medical Sciences'</b> (IEEE UAE Section) for playing a vital role as a Member in organizing ICAMMS'2017 conference from October 5th to 7th, 2017 at Amity University, Dubai UAE
2017	<b>Certificate of Appreciation from International Conference on Infocom Technologies and Unmanned Systems</b> (IEEE UAE Section) for playing a vital role as a Member in organizing the conference in association with Computer Society of India at Amity University, Dubai Campus, Dubai International Academic City, UAE – Dec 18th to 20th, 2017
2016	<b>INVITED SPEAKER:</b> for Panel Discussions with Scientists at Noble Prize Series from 20th – 21st March 2016, which was organized by Mohammed Bin Rashid Al Maktoum Global Initiatives Foundation, held in Hyatt Regency, Dubai, UAE
2015	<b>Dunia Young leader Performance Achievement Award from Dunia Finance LLC</b> in 2015, Dubai, U.A.E.
2014	<b>100% Merit Scholarship Student Award (2014 - 2018)</b> at Amity University, Dubai, U.A.E. <b>Scholarship worth: 57,500 (USD)</b>
2011 & 2012	<b>1<sup>st</sup> Place (Gold Medalist) out of 50 teams at Vignanothsav State level (Ranga Reddy District) Hockey tournament</b> Expo – 2011 & 2012 conducted Mega Finals on January 28th in Hyderabad, Telangana, India.
2010	<b>2<sup>nd</sup> Place at CBSE CLUSTERS – 5 / South Zone (Under 19) Hockey Tournament</b> conducted on 18/10/2010 to 20/10/2010, Organized by P. S. B. S. S. School, K.K. Nagar, Tamil Nadu, India

## REFERENCES

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