

## Fluid Codes – Ansys Space Workshop in collaboration with SAASST:

### Beyond Earth: Elevating Satellite Design with Ansys Simulation Excellence

Date: November 08,2023

Location: SAASST, Sharjah, UAE

Time: 09:00 AM to 02:00 PM



# Fluid Codes - Ansys Space Workshop: Beyond Earth: Elevating Satellite Design with Ansys Simulation Excellence

Date: 08-Nov-2023

## AGENDA

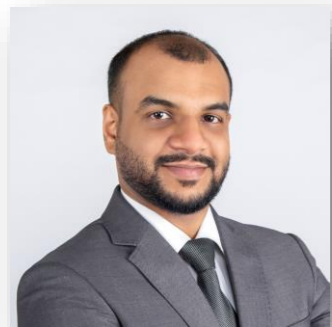
Start	End	Session	Speaker	Content
9:00	9:15	Introduction and Welcome	Dr. Ilias Fernani	<ul style="list-style-type: none"> <li>Workshop objectives</li> <li>Importance of simulation in space research</li> </ul>
9:15	9:30	Session 1	Rahul Krishnan	<ul style="list-style-type: none"> <li>Global Engineering directions in the Space Industry</li> <li>Role of Ansys in the Satellite Development Applications, from Mission Planning to Satellite Decay</li> </ul>
9:30	10:15	Session 2	Elisa Berkane	<ul style="list-style-type: none"> <li>Satellite Mission Planning and Evaluation</li> <li>Workshop: Modelling the design reference mission with STK</li> </ul>
10:15	11:00	Session 3	Hari Sridharan	<ul style="list-style-type: none"> <li>Aerothermal Analysis of Space Systems</li> <li>Workshop: Thermal Analysis with Thermal Desktop</li> </ul>
11:00	11:15	<b>Coffee Break</b>		
11:30	12:15	Session 4	Sagar Mali	<ul style="list-style-type: none"> <li>Structural Analysis of Space Systems</li> <li>Workshop: Thermal Deformation with Ansys Mechanical</li> </ul>
12:15	13:00	Session 5	Neda Emami	<ul style="list-style-type: none"> <li>Telecommunication Devices and Radar</li> <li>EOIR Development &amp; STOP Analysis</li> <li>Workshop: Antenna Design with HFSS</li> </ul>
13:00	13:15	Session 6	Pavel Bruk	<ul style="list-style-type: none"> <li>Model Based System Integration</li> </ul>
13:15	13:30	Session 7	Rahul Krishnan	<ul style="list-style-type: none"> <li>Key takeaways and Thank you note</li> </ul>

# Speakers



## Dr. ILIAS FERNANI

**About:** Dr. Ilias Fernani is Deputy General Director for Research Laboratories and Scientific Projects at SAASST, which is part of the University of Sharjah. Dr. Ilias has received a Ph.D. in Astrophysics from the University of New Mexico, Albuquerque (USA), in 1991. He has about 40 years of research and academic experience in Algeria, the USA, and the UAE. Recently, he succeeded in sending a satellite into space, the Sharjah-Sat-1, to observe the Sun in the X-ray domain as part of a space weather program.



## RAHUL KRISHNAN

**About:** Rahul Krishnan is the Director of Sales at Fluid Codes, Elite Channel Partner for ANSYS. Rahul has helped companies in the Middle East and Africa region in their Digital Transformation Journey with Ansys Simulation Technology. Supporting industries such as Aerospace & Defense, Manufacturing, Hi Tech, Academia & Applied Research.



## HARI SRIDHARAN

**About:** Hari Sridharan is working as a Technical Lead – CFD with Fluid Codes, Elite Channel Partner for ANSYS. Seasoned and persistent aero-thermal engineer specializing in reacting flows and aero-thermodynamic solutions such as thermal modeling and thermal paint test validations. Empowering space and defense industries with physics and calculations for the product development to achieve the mission of the organization.

# Speakers



## SAGAR MALI

**About:** Sagar Mali is working as a Technical Lead – FEA with Fluid Codes, Elite Channel Partner for ANSYS. His expertise spans over 13 years in the field of structural simulation, and he holds a Master's degree in Mechanical Design Engineering. He caters to a diverse array of industries including onshore, offshore, defense, and aerospace.



## NEDA EMAMI

**About:** Neda Emami is working as a Senior Application Engineer with Fluid Codes, Elite Channel Partner for ANSYS. Neda is responsible for providing Technical Support and Training on Ansys Electronics Solutions for different industries like defense and aerospace for RADAR and communication system.



## ELISA BERKANE

**About:** Elisa Berkane is working as a Application Engineer – Digital Mission Engineering with Fluid Codes, Elite Channel Partner for ANSYS. Aeronautical Engineer with a background in designing, developing and testing aerospace and defense technologies.



## PAVEL BRUK

**About:** Pavel Bruk is a Senior Product Sales Manager for MBSE and Digital Safety products at Ansys in MEA region since 2017. Pavel earned a Master of Science degree in Airworthiness and Aircraft Certification Engineering from Moscow Aviation Institute, and Postgraduate Certificate Program on PLM and Additive Manufacturing from University of Liverpool. He is Associated Professor in Moscow Aviation Institute and High School of Economics in Moscow.

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