

## Sriharsha SHESHANARAYANA

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Availability: Immediate



### 1<sup>st</sup> Year PGR in Aerospace Structures

#### Objective

Seeking an opportunity to be involved part-time with the Queen's Graduate School training and development team

#### Education

2015-2019	<b>Queen's University Belfast</b> Prospective PhD student in the school of Mechanical and Aerospace Engineering Aircraft Structural Stress Based Indicators for Loads Optimisation	Belfast, UK
2012-14	<b>Institut Supérieur de l'Aéronautique et de l'Espace (ISAE/Supaero)</b> Master of Science in Aerospace Mechanics and Avionics Specialization in <i>Aeronautical and Aerospace Structures</i> .	Toulouse, France
2008-12	<b>JSS Academy of Technical Education (JSSATE)</b> Bachelors in <i>Mechanical Engineering</i> Gold medallist in the subject "Material Science" for the year 2012, VTU	Bangalore, India

#### Experience

2015 Dec-Present	<b>Post Graduate Researcher, School of Mechanical and Aerospace Engineering, QUB</b>	Belfast, UK
2015 Jun-Nov	<b>Atom Aerospace, Co-founder</b> <ul style="list-style-type: none"><li>Responsibilities include<ul style="list-style-type: none"><li>Product design and development including prototyping</li><li>Business development and fund raising</li></ul></li></ul>	Bangalore, India
2015 Apr-Jun	<b>Genser Aerospace, Internship</b> "Engineering and Technical Marketing" <ul style="list-style-type: none"><li>Responsibilities include<ul style="list-style-type: none"><li>Analysing tenders. Answered Indian Govt ADE tender for complete landing gear system for Panchi UAV.</li><li>Identifying and contacting potential companies for strategic partnership with Genser.</li></ul></li><li>Creation of Advanced Aero-engineering Division (AAeD) with-in Genser Aerospace.</li></ul>	Bangalore, India

<b>2015</b> Jan-Mar	<b>Proquip Technologies Limited</b> , Design Engineer, Freelancer Responsibilities includes <ul style="list-style-type: none"> <li>• Design optimisation of static and dynamic loads of an industrial screener</li> <li>• Producing manufacturing drawings and reports</li> </ul> <b>Freelancer</b> Freelancing projects includes <ul style="list-style-type: none"> <li>• 3D CAD modelling in SolidWorks</li> <li>• Website building and marketing</li> </ul>	Bangalore, India
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<b>2014</b> 6 months	<b>Airbus Operations SAS, Research &amp; Technology</b> , Internship <i>“Loads-Stress Interface (LSI)”</i> Internship under a transnational co-ordinator for Airbus R&T projects, to aid in technical and management aspects of projects including: <ul style="list-style-type: none"> <li>• Developing and debugging the LSI tool which couples loads and stress analysis process in MatLab for a fast reserve factor calculation on the Horizontal Tail Plane (HTP) stiffened covers for pre optimizing the load case set for sizing.</li> <li>• Using LSI to study different loading methods and to make recommendations for the further development of the project. This enabled a pioneering comparison between the stress RF calculated assuming traditional SMT assumptions compared to state of the art Nodal distributed loading</li> <li>• Developing the LSI module for the analysis of rib to cover for HTP.</li> <li>• Contributing to the concept of a design rule data management system for an efficient generation and management of Finite Element Models for both static and dynamic analysis.</li> </ul>	Toulouse, France
<b>2013-14</b> 1 year	<b>ISAE</b> , Research Project <i>“Moisture ageing effects on the damage behaviour of Thermoset Composites”</i> The composite IM7/977-2 is aged in different moisture conditions and tested, characterized and the damage evolution laws are evaluated. The specimen also has a sprinkle pattern to test the validity of the Digital Image Correlation (DIC) method. With the damage laws, further numerical simulations are done to better understand the moisture ageing effects.	Toulouse, France
<b>2012</b> 6 months	<b>Indian Institute of Science (IISC)</b> , Academic Project <i>“Design and Fabrication of a tailless UAV with wing tip sail”</i> To study the effects of side slip by using wing tip sails (Pitch controllable split winglets) on a tailless UAV.	Bangalore, India
<b>2012</b> 4 months	<b>Sysmec Pvt Ltd</b> , Internship <i>“Modelling of an over-head crane”</i> An over-head crane which was installed in the company was modelled in CATIA and the design was exported for further validation.	Bangalore, India

## Skills

Software packs-	MatLab, ISAMI, Nastran/Patran, CatiaV5, SolidWorks, ANSYS Workbench, ASSIST, MS office, VIC-2D, LightRoom
Programming-	MatLab syntax, Python, C, Wiring (for Arduino)

OS -	Windows, Linux
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## Languages

English	-Fluent
French	-Intermediate(A2)
Kannada	-Mother Tongue
Hindi	-Intermediate
Mandarin Chinese	-Beginner

## Activities and Interests

Hobbies	<ul style="list-style-type: none"> <li>• Avid RC modeller with an interest in <ul style="list-style-type: none"> <li>○ Multicopters and FPV racing. I also like to explore the idea of manned quadcopter technology.</li> <li>○ 3D aerobatic flying.</li> <li>○ Involved in building and flying rockets with sugar based propellants. <ul style="list-style-type: none"> <li>▪ Conducted workshops for High school students about aero modelling model and amateur rocketry at CFRCE, Bangalore.</li> </ul> </li> </ul> </li> <li>• Photography and Videography</li> </ul>
Travel &	<ul style="list-style-type: none"> <li>• Enthusiastic traveller with an experience of motor-biking in the remote Himalayan range.</li> <li>• Rock climbing, mountaineering, cycling, trekking.</li> </ul>
Sports	<ul style="list-style-type: none"> <li>• Skydiving, archery and gliding</li> </ul>
Music	<ul style="list-style-type: none"> <li>• Lead guitarist of the band “Gunpowder Accounts”.</li> </ul>

## Reference

<b>Prof Cecil G Armstrong</b> Supervisor at QUB	School of Mechanical and Aerospace Engineering Queen's University Belfast Ashby Building Tel: 028 9097 4124 Mail to: <a href="mailto:c.armstrong@qub.ac.uk">c.armstrong@qub.ac.uk</a>
<b>Eur Ing DR James R Barron,</b> Manager and Industrial tutor at Airbus R&T	Trans-national Co-ordinator for Aircraft Stress Loads Projects Tel +33 (0)567 19 95 48 / 599548 Mobile +33 (0)620 46 02 72 Mail to: <a href="mailto:james.barron@airbus.com">james.barron@airbus.com</a>
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