

Irfan Habeeb C N

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☑ Xing,

Personal Website

Profile

Engineering design expert, 5+ years experience in computational mechanics, 3D modeling and programming. Professional with project experience from concept to development.

Interests and Skills

- Thermomechanical analysis and FEM
- Ceramic & Metal testing
- CAD & CAE SolidWorks, Creo, and CATIA
- Programming Matlab/Simulink, Python, Fortran and Unix
- Software Abaqus, Ansys, Hyperworks, and Siemens

Education

10.2016 - 10.2021	PhD in Mechanical Engineering, Technion IIT, Israel.
07.2014 - 07.2015	M.Eng in Aerospace Engineering, IIT Madras, India.
10.2010 - 07.2014	B.Eng in Aerospace Engineering, IIT Madras, India.

Experience

10.2016 - 10.2021

PhD:

Technion - Israel Institute of Technology, Israel

- Thermomechanical analysis of metals, ceramics and polymers using numerical and experimental analysis.
- Testing of materials under various loading conditions.
- Structural analysis of 3D printed materials.
- Sheetmetal forming under extreme environmental conditions.
- Utilization of CAE and FEM and image processing.
- · Projects with international collaborations.

07.2019 - 09.2019

Internship:

Airbus Defense & Space, Spain

- Development of the numerical model of a satellite launcher component.
- Implementation of a thermomechanical model for product development.

06.2019 - 07.2019

Research collaboration 1

UC3M – University of Carlos III Madrid, Spain

- Development of material models for structural analysis.
- Employment of open source FEA packages.

09.2018 - 11.2018

Research collaboration 2:

LEM3 - University of Lorraine, France

- Implementation of damage model for ceramics.
- Validation of models with experiments.

04.2016 - 09.2016

Research assistant

National Institute of Ocean Technology, India

- Control system for the motion of robotic fish.
- Implemention of PID Control systems using Matlab Simulink.

08.2015 – 04.2016

Software Developer

Moonraft Innovation Labs. India

- Frontend-developement of websites and Android based applications.
- GUI developments using HTML/CSS and JavaScript.

Organisation & Training

- Organization of workshops and competitions to teach RC aircraft building to nearly 1000 students.
- Mentored several bachelor and master students during M. Eng and PhD.

International Events

- Presentation of research at 5 international conferences. Participation in 3 workshops and 1 summer school resulting in deep understanding and extensive exposure to research and development.
- Postings in Spain and France and a secondment in Spain (Airbus Defense& Space).

Achievements

- Marie Skłodowska-Curie ITN-ETN Scholarship from 'ITN OUTCOME project', organized by the European Union's Horizon 2020 research and innovation program.
- All India position 89 in Graduate Aptitude Test in Engineering-2014 (top 0.5%).

Personal Vitae

Citizenship India

Date of birth 31.10.1991

Hobbies

Football, Robotics, occasional reading and stand-up comedy.