

Irfan Habeeb C N

Development Engineer

7+ years experience in mechanical design, thermo-mechanical analysis, 3D modeling and programming. Expertise in product development.



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[Personal Website](#)

SKILLS & INTERESTS

- Electric motor design - AC & DC
- Structural & thermal analysis
- Dynamic Analysis
- FEM - Ansys, Hyperworks & Abaqus
- CAD - SolidWorks, Creo, AutoCAD
- Programming - Matlab, Python, Fortran, JS & Unix
- Product development
- Managerial skills (intermediate)

EDUCATION

- PhD** in Mechanical Engineering, Technion IIT, Israel (10.2021)
- M.Eng** in Aerospace Engineering, IIT Madras, India (07.2015)
- B.Eng** in Aerospace Engineering, IIT Madras, India (07.2014)

ACHIEVEMENTS

- Marie Skłodowska-Curie ITN-ETN Scholarship from EU's Horizon 2020 research program.
- All India position 89 in Graduate Aptitude Test in Engineering-2014 (top 0.5%).

INTERNATIONAL EVENTS

- Participation in 5 conferences, 3 workshops and 1 summer school.
- Postings in Spain and France and a secondment in Spain (Airbus Defense & Space).

ORGANISATION & TRAINING

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

PERSONAL VITAE

Nationality	India
Resident & work permit	Germany
Languages	English (C2), Deutsch (B1)

PROFESSIONAL EXPERIENCE

Development Engineer

Winkelmann Elektromotoren GmbH, Germany 07.2022 - present

- Mechanical design of AC & DC motors
- Thermal analysis.
- Static and dynamic analysis of systems.
- CFD (beginner).
- Familiarity with DIN, ISO and similar standards.
- Work experience in production, assembly and testing.
- Interactions with customers and suppliers.
- Moderate managerial and supervisory skills.

PhD

Technion - Israel Institute of Technology, Israel 10.2016 - 10.2021

- Thermo-mechanical analysis of metals, ceramics and polymers.
- Testing of materials under various loading conditions.
- Structural analysis of 3D printed materials.
- Sheetmetal forming under extreme environmental conditions.
- Use of CAE and CAD and image processing.

Internship

Airbus Defense & Space, Spain 07.2019 - 09.2019

- Development of the numerical model of a satellite launcher stage separation unit.
- Implementation of a thermo-mechanical model for test phase.
- Reducing the number of tests for cost reduction.

Research Assistant

National Institute of Ocean Technology, India 04.2016 - 09.2016

- Control system for the motion of robotic fish.
- Implementation of PID Control system for navigation using Matlab Simulink.

Software Developer

Moonraft Innovation Labs, India 08.2015 - 04.2016

- Web and Android front-end development.
- GUI developments using HTML/CSS and JavaScript.
- Client interactions in design and development.