Raghuram Shankar

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Career Objective

To obtain a position in the field of Simulations and Electronics, which harnesses my skills and knowledge for advancements in all spheres of Engineering, while giving me ample opportunities to enhance my competence.

Education

Master of Science, Electric Power Engineering **2019 - 2021**
Chalmers University of Technology, Sweden *(Expected)*

Bachelor of Technology, Electrical & Electronics Engineering **2015 - 2019**
SASTRA Deemed to be University, India

Relevant Experience

Chalmers Formula Student **Sep 2019 - Present**

- Currently a Project Engineer in the Low Voltage Subgroup at **Chalmers Formula Student 2020,** where we, as a group of 37 are designing and manufacturing of an Electric Formula Student car.
    - Responsible for design and implementation of **Drive Controls, Torque Vectoring, Velocity Estimation** and **Fusebox**.
    - **Benching of motors** and Power Electronics as part of **Powertrain** Manufacturing subgroup.

Summer Research Fellow **May 2018 - Jul 2018**

- Worked on a project titled **"Energy Harvesting Systems"** at the Integrated Circuits Lab, under the guidance of Dr. Aniruddhan. S at Indian Institute of Technology, Madras.

Projects

Solar Powered Electric Vehicle **Aug 2017 – Apr 2018**

- Was part of a **SASTRA Racing Team**, a group of 30, in the Battery and Electronics subsystem, where we designed and manufactured a single-seater prototype electric vehicle powered by solar energy.
    - **Electric Solar Vehicle Championship 2018**, 4th Overall, 2nd Place in Cross-pad event, April 2018.

Novel Multilevel Inverter **Dec 2018 - May 2019**

- Two novel topologies of switched capacitor based boost inverters with different design and performance goals was simulated and harmonic analysis was done.
    - **"Switched Capacitor based Multilevel Boost Inverter for Smart Grid Applications"**, presented at IEEE PES Innovative Smart Grid Technologies (ISGT) Asia 2019 at Chengdu, China (Publication)

Areas of Interest

- Simulation & Modelling, Electronics Design, Power Electronics & Drives, Lithium-ion Battery Systems.

Skills

- **MATLAB & Simulink** (Advanced), **C & C++** (Intermediate), **IPG Carmaker** (Beginner), **Altium** (Beginner).

Additional Training

- Completed various online courses on Power Electronics and Electric Vehicles (Link)

Activities and Honours

- **Dean's List Merit Scholarship**, 4th Academic Year of Bachelor's, 2018 – 2019.
- **German language,** A1 Level, April 2017.
- **Sanskrit – Spoken and Written,** University 2nd Rank, Nov 2015.
- **Samaskrita Sammelanam**, Volunteer, Chennai, September 2015.