SHARATH RAM KUMAR

ELECTRONICS ENGINEER

PROFICIENCIES

- C, C++, Python
- Microcontroller/SBC Programming (STM32, Arduino, Raspberry Pi)
- Scientific Computing/Visualization Libraries (Numpy, Scipy, Pandas, Matplotlib), ML/DL Frameworks (scikit-learn, Tensorflow)
- Excellent knowledge of semiconductor devices, materials and fabrication processes, EMIR signoff methodology

AWARDS & ACHIEVEMENTS

3x DAAD Scholarship Awardee for TUM Master's Students

Best Student & Valedictorian (TUM-NTU MSc Greeen Electronics), July 2022

TEST SCORES

GRE : 328 (165 Q, 163 V, 5.0 AWA)

TOEFL : 119 (30 S, 30 W, 30 L, 29 R)

CONTACT INFORMATION

Ph: +65 9089 0572 // +91 94959 81767
sharath.ramkumar@outlook.com
https://www.linkedin.com/in/sharathramkumar/
https://github.com/sharathramkumar/

Puthenmadom,
Mariathuruthu PO, Kottayam, Kerala - 17
India

EMPLOYMENT HISTORY

Research Associate

CNRS@CREATE, Singapore (June 2022 -)
- Hybrid-AI approaches to control power systems such as microgrids
- Part of the DesCartes research project at CNRS

Application Engineer

Ansys Software Pvt. Ltd, Bengaluru (2018 - 2020)
- Deployment and testing of Ansys Redhawk-SC & ClockFX tools
- EMIR signoff, Clock Jitter Analysis, Chip Thermal Analysis
- Directly supported Tier-1 SoC and IC vendors internationally
- Scripting and maintaining code for custom reporting.

EDUCATION

Nanyang Technological University, Singapore
M.Sc in Green Electronics (2020 - 2022)
Joint course offered by TU Munich and NTU Singapore
Focus on Microelectronics and Nanotechnology
CGPA : 4.96 (NTU CGPA), 1.02 (TUM CAP)

Model Engineering College, Cochin
B.Tech. in Electronics Engineering (2014 - 2018)
- CGPA : 8.07 / 10, First Class With Distinction

PROJECTS AND INTERNSHIPS

AMDM Lab at IMRE, ASTAR (July 2021 - April 2022)
- Development of a thermoelectric characterization setup
- Research leading to a Master's thesis

Amplefresh SG (Mar 2021 -)
- Co-founded an urban farming startup in Singapore
- IoT-based automation for an outdoor hydroponics system

Satellite Research Centre, NTU (Dec 2020 - June 2021)
- OBC Code development for the SCOOBI/ARCADE missions

TECHNICAL CERTIFICATIONS

Deep Learning Specialization - *by deeplearning.ai*