

SURYANSH SHARMA

MSc. Embedded Systems

📍 Delft, Netherlands
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EDUCATION

MSc. Embedded Systems, Software and Networking Track

Delft University of Technology, Netherlands

📅 Aug 2018 – Aug 2020 (expected)

CGPA: 8.5 / 10

B.Tech. Electronics and Telecommunication Engineering

M.P School of Technology Management and Engineering, NMIMS University

📅 May 2014 – May 2018 📍 Mumbai, India

CGPA: 3.75 / 4

EXPERIENCE

Visiting Researcher

Indian Institute of Science (IISc)

📅 July 2019 – Aug 2019 📍 Bangalore, India

- Worked on hardware and embedded software design for low cost BLE mesh sensor nodes, machine learning on edge devices to detect intruders and set up adhoc network formed by the BLE enabled nodes (based on NRF52840)

Control and Software Engineer

Team Silverwing (Silverwing Aeronautics B.V.)

📅 Sept 2018 – July 2019 📍 Delft, Netherlands

- Worked on developing the flight control system for an autonomous battery powered personal flying vehicle (VTOL). Worked with the MAVlink protocol as well as I2C, CAN, Serial and SPI protocols, embedded hardware and software design as well as developing the various subsystems of the aircraft.

Embedded Software Developer

Tumour Trace

📅 May 2016 – July 2016 📍 Mumbai, India

- Worked as an embedded software engineer to incorporate the company's detection algorithm on the Raspberry Pi board using C/C++ for interfacing.

PROJECTS

Balls for Walls: A smart acoustic wireless sensor network for virtual fencing

- Developed a low cost border surveillance solution using acoustic localization on custom hardware based on NRF52840 SOC, detection algorithm for detection at edge and LoRa and BLE mesh communication.

3D-Printed custom trans-radial prosthetic arm

- Worked on ARM Cortex M4 for actuating hand motion and implementing machine learning algorithms to enhance accuracy and decrease learning time in amputees.

SKILLS

C/C++ Wireless communication
Low power embedded system design IoT
Python RTOS ROS Java Git
Creative Problem Solving Teamwork
Design Thinking

HONORS & AWARDS

- 🏆 **Best innovation award**, CERN Honours Programme Summer School, 2019
- 🏆 **First runner up**, EU's DigiEdu Hackathon, Gamification Track, 2019
- 🏆 **Semifinalist**, Texas Instruments' India Innovation Challenge, 2017
- 🏆 **Winner**, Royal Academy, UK's Engineering Tech Challenge, 2017
- 🏆 **Bronze Award**, International Award For Young People (Duke of Edinburgh Award)

VOLUNTEERING

Embedded Design Volunteer

Quantum BV, Delft, Netherlands

📅 November 2019 – Present

- Design and develop the electronics in thermo-electric kettles for low income families in Guatemala and Africa which can be used as LED lighting.

Research & Development Volunteer

Enactus, MPSTME, Mumbai, India

📅 Aug 2015 – May 2016

- Worked with low income women to develop a self sustained business by recycling saw dust into pencils. Also educated children in STEM.

INTERESTS

DIY Electronics and Hardware projects

- I am interested in DIY technology, projects and rapid prototyping. I often find myself spending time at my local makerspace and at fab labs abroad.

3D Printing and Designing

- I like 3d modelling and made my own 3D Printer in 2015. I also 3D print to supplement my DIY electronics projects.