

ANUP SHARMA

Embedded Software Engineer

Embedded Software Developer at Maxlinear, completed B.Tech Electronics and Communication and a Diploma holder in Electrical. A technology enthusiast with 1+ years of hands-on projects and internship experience as Embedded firmware engineer with 3+ Years of project experience in IoT.



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EDUCATION

B.Tech, Electronics and Communication *7.93 CGPA*
Dibrugarh University, Assam *2019 - 2022*

Diploma, Electrical *8.2 CGPA*
Government Polytechnic, Nagaon *2015 - 2018*

Secondary School Certificate (SSC) *8.2 CGPA*
Guru Teg Bahadur Academy, Tinsukia *2015-2016*

SKILLS




- **Languages:** C, C++, Python, Embedded C.
- **Microcontroller:** STM32, ESP32, RaspberryPi, Arduino.
- **Skill:** IoT, Hardware, Photonics, Semiconductor.
- **Cloud Services:** IBM watson IoT, AWS

ACHIEVEMENTS

Patent: 

(Granted) A Robotic System for Disinfecting an Area
Application No.2021102592

International Journal Papers:

- A Review on Photonic Crystal based All-Optical  logic decoder: Linear and Nonlinear perspectives.
- Design and analysis of All-Optical Isolator Based on Linear Photonic Crystal. 
- Study of All-Optical Directional Coupler Based on Holes in Slab Photonic Crystal Structure. 

Hackathons and Paper Presentations:

- Won bronze medal in **Robotic Design competition** at **IEEE R10 TENCON** conference 2021, NZ.
- Won Consolation prize in Sandhan: An innovative challenge to fight **Covid-19** Pandemic Hackathon.
- Selected as **best Intern** in IEEE AP-MTT SBC, IIT Kharagpur.

PROJECTS

IoT Based Hydroponic System | [Link: !\[\]\(19d44b37fb4fa155bf9d60c77a3d3cb2_img.jpg\)](#)

- Developed on ESP-32, Processes incoming data from **sensors** and transmits the processed data to the **cloud servers** via built-in **Wi-Fi**.
- The **mobile application** displays the **dashboard** with different widgets to present and **visualize** the results of data collected in the cloud.

WORK EXPERIENCE

Maxlinear Technologies, Kernel Developer
SEP- 2022 - PRESENT

- Getting famlier with Networking Driver and Firmware
- Skills: Networking, **Wireless**, **Firmware**, OS, Linux

Mirabilis Design, R & D Eng. Intern
JUNE 2021 - SEP 2021

- Performing **system-level simulation** to study the efficiency and quality of the proposed architecture.
- Involved in monitoring various parameters of **SoC** performance, ranging from Cache Speed, Overhead Cycle, Block Size etc. to analyses the throughput, **latency**, hit and miss ratio.
- Technologies: **C**, **C++**, **Python**, MBSE

Researchime, Lead System Eng. Intern
MAY 2020 - DEC 2020

- Pioneered a custom force sensor using velostat.
- Experience in **UART** module and general knowledge in Port, **ADC** of Microcontroller.
- Technologies: **I2C**, **SPI**, **Embedded**, **System Programming**.

IEEE AP-MTT SBC, IIT KGP, R & D Intern | [Link: !\[\]\(c1b924320d9ec7587a1dd427119524d0_img.jpg\)](#)
JULY 2020 - AUG 2020

- Formulated a low-cost setup for antenna radiation pattern measurement by using **Bluetooth**.
- **GUI** for polar plotting of RSSI.
- Skills: Antenna, **Matplotlib**, Pandas, GIT

Schlumberger India, ECAD Designer
SEP 2018 - JULY 2019

- In-charge of new electrical part registration in GEMS in accordance with **ECR & ECO**.
- BoM Compliance Regulations management for ROHS, WEEE, conflict minerals.

VOLUNTEERING

- Regional Coordinator for IEEE **SIGHT Project** E-HuTs. [Link: !\[\]\(b7492e63f13d80b3a46b0c4d159e17d8_img.jpg\)](#)
- Skills: Effective communication, Team building and Mentoring, Strategic Planning