Anuraag Pal

Electronics and Communication Engineer

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Results-Oriented Electronics and Communication Engineering major (8.5 CPI and 8.4 CGPA) currently attending Government Engineering College Gandhinagar, with 1 year and 6 months of work experience from GTU ROBOTICS Club and with 3 month of industrial experience from Internship at ISRO . Aiming to leverage a proven knowledge of Data Science, Web Design, Management and Programming skills to successfully fill the role at your company. Frequently praised as efficient by my peers, I can be relied upon to help your company achieve its goals.

Experience

FEBRUARY 2023 – MAY 2023

Research & Development Intern/Space Application Center (SAC, ISRO), Ahmedabad

In my final year internship at ISRO's Space Application Center (SAC), I was a Research and Development Intern and worked on a project titled "Implementation of Motor Control using ARM Cortex-M7." During this project, I successfully used the Microchip ARM Cortex-M7 microcontroller and the Microsemi LX7720DB motor controller to control a BLDC motor using MPLAB X IDE with XC32 Compiler and HarmonyV3 Configurator. For motor control, I implemented Field Oriented Control (FOC) using Space Vector Pulse Width Modulation (SVPWM). My research further confirmed that SVPWM is a better technique than Sinusoidal Pulse Width Modulation (SPWM). As a result of this project, the company is aiming to improve the efficiency of motors used in its future space applications. Report Link: https://github.com/PalExpo/BE_Final_Semester_Internship

JUNE 2022 – JULY 2022

Research & Developer Intern/Electrogenics Innovations Pvt. Ltd., Ahmedabad

I completed a summer internship program with Electrogenics Innovations Pvt Ltd. My responsibilities included being part of the Research and Product Development team and closely assisting with the development of the company's products. The work I performed as part of my internship included the transfer of Hexadecimal data between devices as well as the development of a battery and pressure monitoring system. My conduct in the industry was also recognized in the form of a letter of recommendation.

JULY 2020 – DECEMBER 2021

Senior Programmer and Circuitry Member/GTU Robotics Club

For 1 year and 6 months, I served as a Senior Programmer in the GTU ROBOTICS Club. In order to participate in international/national tech competitions, I coordinated the creation of Logistic Equations and Graphs using Machine Learning to ensure that robots function correctly. We work under the guidance of our senior faculties. I specialized in software development and hardware debugging for robots. The DD National ROBOCON 2021 was won by us as the 1st and 2nd runners-up. Additionally, we represented TEAM INDIA at International ROBOCON 2021, China, and achieved 9th place in the competition.

Skills

Robotics • Team player • Excellent time management skills • Machine Learning • C/C++ Programming • Python Programming • Embedded System • Basic Image Processing • Microsoft Excel • HTML+CSS+JS

Education

JULY 2019 - PRESENT

Bachelor of Engineering/Government Engineering College, Gandhinagar

Electronics and Communication Engineering (CPI – 8.5)

JULY 2019 - PRESENT

CBSE 10th and 12th/Kendriya Vidyalaya

- 12th (Science) (in PCM – 85% & in Mathematics – 95%)
- 10th (CGPA – 10 on scale of 10)

Certificates

• **1st and 2nd Runner-Up in National Robocon 2021 by DD Robocon, India**

• **Data Scientist Career Track Certificate by 365 Data Science.**

• **Python for Data Science issued by IBM.**

Personal Projects

Multilingual Smart Automation System
• Project is based on google assistant, in which using IOT (like Arduino & Raspberry Pi); we can access The System using our voice in any language throughout the world.

Logistic Regression with Python using Titanic data
• Project based on Python Machine Learning analysis by using the Titanic dataset provided by Kaggle

JARVIS Program using Python and GUI
• JARVIS was made with Python Programming and its GUI was made with Q-Designer Software. It can automate a lot of things that we do regularly on our laptops and computers using Voice and Motion Command.

Languages

English • Hindi • Bengali • Korean • German • Gujarati