

Prajwal B Ainapur

Stream: B.Tech. ECE

Specialisation: Data Science

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Internships

Jan'19-Present
(upto Jul'19)

Project Trainee, Robert Bosch Engineering and Business Solutions Pvt. Ltd.

- Working on a Robotic arm system called TESTA to make the process of testing multimedia systems, an automated one.
- Working on a Test Status Monitor to continuously monitor the build servers, making it more developer friendly.

Jun-Jul'17

Intern Trainee, Nelcast Ltd.

- Underwent training on Foundry Automation using PLC systems (Siemens 7)
- Trained on SAP implementation and management (PP, MM, QM).

Jun-Jul'16

Intern, UNO Minda

- Completed the project, "Standardisation of Product Manufacturing"
- Enabled the department in reducing the lean time in manufacturing new products.

Projects

Dec'17- present

Thermal Paper Interface (*ST Microelectronics project*)

- This project focuses on developing a thermal paper interface board based on X-Nucleo design which is compatible with both Shield and Morpho form factors along with the drivers for the same.
- This is a real time customer driven project given by ST Microelectronics.

Jan-Jun'18

Pervasive Agriculture (*B. Tech. R&D project*)

- A smart farming system using machine learning (ARIMA model and K-NN) and image processing (field detection using satellite images for route mapping).
- This project aims at developing a predictive model to enable the farmers to earn more revenues with minimal inputs by guiding them over the best crop to grow.

Aug-Dec'16

Modular-design based Water Quality Monitoring System for Aquaculture and Fisheries (*Innovate India Challenge – 2016, Texas Instruments and DST*)

- A smart modular system to monitor water quality through the computer.
- This project was selected for the Quarter Finals for the fore-mentioned competition.

Aug-Dec'16

Driver Drowsiness Detector (*B.Tech. Digital Logic Circuits project*)

- Developed a working prototype to detect the driver's drowsiness (self-developed circuit).
- This project won the second place at Silicon D'art competition held at NIIT University.

Education

2015-19	NIIT University Bachelor of Technology, Electronics and Communication Engineering	9.16/10
2014-2015	Velammal Matric Higher Secondary School 12 th (HSC)	92.7%
2012-2013	Velammal Matric Higher Secondary School 10 th (SSLC)	98%

Technical Skills

<i>Tools</i>	Pymakr, OpenCV, Scikit-learn, MATLAB, Model Sim.
<i>Hardware</i>	STM32, LoPy, TI CC3200, 8051 architecture-based systems, PIC 16x.
<i>Languages</i>	C, C++, Python, R, Assembly, VHDL, Verilog.
<i>Protocols</i>	BLE, LoRA WAN, Wi-Fi.

Accreditations

Dec'17-Dec'18	<ul style="list-style-type: none">• Student Product Developer, STMicroelectronics NV
Sept'17-Dec'18	<ul style="list-style-type: none">• Project Co-Ordinator, NanoEL Project – Funded by Erasmus programme, EU.
2018	<ul style="list-style-type: none">• Founding Chair. IEEE Student Chapter – NIIT University
2017-2018	<ul style="list-style-type: none">• Microsoft Student Partner
2016	<ul style="list-style-type: none">• Microsoft Imagine Cup, National Finalist - 2016
Aug'16-May'17	<ul style="list-style-type: none">• Secretary, Microsoft Innovation Centre
2014	<ul style="list-style-type: none">• NTS Scholar

Research Work

Sept'18	<ul style="list-style-type: none">• Presented a paper titled, “Prediction based Smart Farming” at the International Conference of Computer and Informatics Engineering. This paper also received the “Best Paper Award” at the fore mentioned conference.
Feb'18	<ul style="list-style-type: none">• Presented a paper titled, “An Analytical Study on Indian Currency Market” at the International Conference on Economics and Finance held at BITS-Goa.

Other Mentions

2017	<ul style="list-style-type: none">• Conducted workshops on robotics and image processing under the robotics club of NIIT University.
2016-2017	<ul style="list-style-type: none">• Conducted workshops on using Arduino and other Microcontrollers under the Microsoft Innovation Centre.

Other Interests

- Debate and Public Speaking
- Classical Guitar – Grade 5 from Trinity School of Music, London