

YASH RAJ

Pre Final Year, Electronics and Communication Engineering

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EXPERIENCE

Participant

Invent@IITGN

May 2019 – June 2019

Gandhinagar, Gujarat

- Controlled Insulin Injection Device, Design, Implementation
- Designing components of the device, 3D printing, developing automated functionality on Arduino Mega, designing custom arduino-shield for the device.

PROJECTS

WayMart

HackFest'19 @ IIT Dhanbad

March 2019

- A self-checkout cart that generates bill/invoice of items put in the cart automatically, eliminating long, time-consuming queues in marts.
- Used low frequency RFID technology with custom-built receiver antenna to detect items.

Autonomous Drone

eYantra Lab

November 2018 - February 2019

- Developed an autonomous flight control system using PID control technique on Pluto drone using ROS-kinetic and Vrep.

Real Track

May 2018 - June 2018

- A system to collect real-time motion specific data from a mobile robot(using MPU6050) via the internet (MQTT protocol) using extended-C and python.

ACHIEVEMENTS

- Secured 1st Position in Walmart Self-Checkout Cart Challenge at Hackfest 2019, IIT Dhanbad.

SKILLS

Arduino C++ Python

Amplifier Design

3D Mechanical Design

CERTIFICATIONS

Introduction to Power Electronics

Coursera

Issued May 2019

Credential ID: N28CEVAHX63S

Introduction to Electronics

Coursera

Issued March 2019

Credential ID: JSYR65L53ETU

EDUCATION

B.Tech in ECE

IIT Dhanbad

July 2017 – Present

CGPA(till 4th Sem) : 8.9

XII Board

Central Board of Secondary Education

April 2015 – March 2017

Science(PCM), 94.6%

RESEARCH INTERESTS

- Power Electronics
- VLSI
- Control Systems
- Robotics