

Ebey Abraham

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MrGrayCode.github.io

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Education

Rajiv Gandhi Institute of Technology, Kottayam

June '15 - present

Bachelor of Technology, Department of Computer Science

- CGPA : 8.8/10

Ryan International School, Noida

April 2015

High School

- Overall performance : 95.4%

Internships

1. Neo Green Labs, Kochi [Summer 2016]

During the course of two months I worked on :

- Digital and analog circuit simulation
- PCB designing
- Fabricating PCBs for DC power supplies and motor drivers
- Remote controlled bot using zigbee
- Obstacle detection bot using ultrasonic sensors
- Build a control circuit for a robotic arm and controlled it with zigbee

2. FOSSEE, IIT Bombay [Summer 2017]

The aim of this project was to interface open source libraries to develop a image processing and computer vision toolbox for Scilab.

I developed functions related to image stitching, optical flow, convex hulls, edge detection, contour detection and approximation and point clouds.

The functions for the toolbox were implemented using C++ and were callable from the Scilab GUI. The C++ code and Scilab were linked using scilab functions. The OpenCV and PCL libraries were used for this purpose.

Achievements

- Fresher Cup winners (football)
- First year overall topper
- Represented college at various tech fests (college level)
- Represented college at **ACM-ICPC 2017**(regional level)
- Ranked 3887 in **CodeChef SnackDown 2017** (national)

Volunteering Work

- An active member of IEEE Computer Society and Robotics and Automation Society
- Set up a branch of TinkerHub at college along with a team
- Student representative of CodeChef SnackDown 2017

Mentoring Experience

- Set up a website, blog and forum for the college along with a team of students from my department
- Problem setter for competitive programming events at college

Computer Skills

- **Experienced** : C, C++, Python, Matlab, Scilab, Git, OpenCV, Arduino
- **Familiar** : PCL, Java, HTML, CSS, Jekyll
- **Miscellaneous** : \LaTeX , bash, JS, Orcad, Proteus, Zigbee

Minor Projects

- 5x5x5 LED cube controlled by Arduino using shift registers
- Detecting specified colors in video feed
- Isolating a document in an image similar to Cam Scanner app
- Hand gesture recognition (counting number of raised fingers)

Reference

Unnikrishnan K

Assistant Professor

Dept. of Computer Science and Engineering

Rajiv Gandhi Institute of Technology

Kottayam

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