Amegh Bhavsar

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B-405, LBS Hall of Residence, IIT Kharagpur, W.B., India - 721302

Education

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Dual Degree in Biotechnology and Biochemical Engineering | Sophomore
Expected April 2020 | Kharagpur, India
CGPA: 7.51/10.00

VIDYASAGAR SCHOOL

All India Senior School Certificate Examination
Grad. May 2015 | Indore, India
Percentage: 88.0%

Links

LinkedIn://**ameghbhavsar**
Github://**ameghbhavsar**

Courses

UNDERGRADUATE

Programming and Data Structures*
Partial Differential Equations
Probability and Statistics
Basic Electronics*
Biochemistry*
Biochemical Reaction Engineering and Bioenergetics*
Microbiology*
Cell and Molecular Biology*

ONLINE

Introduction to Programming with MATLAB (Coursera)
Intro to Computer Vision (Udacity)
The Arduino Platform and C programming (Coursera)

Expertise

PROGRAMMING LANGUAGES

C, C++, MATLAB, Python, C#, MySQL, HTML, CSS

TOOLS & LIBRARIES

OpenCV, Git, Socket Networking

SOFTWARES

Adobe Photoshop, Atmel Studio

HARDWARES

Arduino, ATmega

Co-curricular Activities

Artist | Badminton

Projects

SWARM ROBOTICS, IIT KHARAGPUR | Software Team Member

Mar 2015 - Present | Kharagpur, India
Guide: Prof. Somesh Kumar

- Worked on designing networking architecture for Swarm Robots in C.
- Accomplished localization of robots using AprilTags library in C++.
- Worked on obstacle avoidance algorithm for swarm robots to travel freely in an arena mapped through overhead camera.
- Designing Leader selection and Clustering algorithms for swarm model.
- Designing a software architecture which can implement swarm model on any type of terrestrial or aerial robot.

FOOTFALL COMPUTATUION USING OpenCV | Project Member

Dec 2016 | Kharagpur, India

- Accomplished IEEE certified project of computing number of people in a room using OpenCV in C++.

MOTION MIMICKING AND PATH REPLICATING ROBOT | Project Member

Dec 2016 | Kharagpur, India

- Accomplished IEEE certified project aimed at making an autonomous robot which could imitate the path of another robot on ATmega and Arduino.

Positions of Responsibility

GOPALI YOUTH WELFARE SOCIETY | Senior Executive Member

Design Team Member

Aug 2015 - Present | Kharagpur, India

- Crafting layouts and designs for website, reports, and newsletters.
- Responsible for designing visual media for social media accounts.
- Mentoring junior team members by organizing Adobe Photoshop workshops, improvising final drafts.

Media and Publicity Team Member

Jan 2016 - Present | Kharagpur, India

- Handling social media accounts.
- Contacting renowned newspapers, Facebook pages and websites for coverage.
- Accountable for making Annual Report 2016-17 of the organization.
- Part of content writing team for Pratirav - a bimonthly newsletter.

Other Responsibilities

- Working for financial support of students from poor background under the initiative Educate a Child.
- Part of the team responsible for raising an amount of Rs. 2.5 Lakh in Jan,2016 for a free school run by Gopali Youth Welfare Society.