

AMEGH BHAVSAR

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EDUCATION

Indian Institute of Technology, Kharagpur

B.Tech + M.Tech in Biotechnology and Biochemical Engineering
CGPA: 7.26/10

July 2015 - Present

Kharagpur, India

Vidyasar School

All India Senior School Certificate Examination
Percentage: 88.0%

Grad. May 2015

Indore, India

TECHNICAL SKILLS

- | | |
|--------------------------------|--|
| • Languages | Proficient: C, C++, Python Intermediate: MATLAB, Bash, HTML, CSS |
| • Tools & Libraries | OpenCV, Git, ROS, Gazebo |
| • Software | Adobe Photoshop, Atmel Studio |
| • Hardware | Arduino, ATmega, Raspberry Pi |

RELEVANT COURSEWORK

Programming and Data Structures

Partial Differential Equations

Probability and Statistics

Basic Electronics

Robotics: Computational Motion Planning*

Introduction to Computer Vision*

* indicates online courses

RESEARCH EXPERIENCE

Swarm Robotics IIT Kharagpur | *Software Team Member*

March 2016 - Present

Guide: [Prof. Somesh Kumar](#) & [Prof. Pallab Dasgupta](#)

- Developed a [ROS package](#) for path planning of mobile robots using **Artificial Potential Field**.
- Optimized and tested the APF algorithm on a simple [simulator](#) to overcome problem of local minima.
- Worked on developing an **ad-hoc network** for communication of swarm robots using sockets in C.

PROJECTS

IEEE Image Processing Workshop | *Project Member*

December 2016

- Developed an [application](#) to count number of people entering the room using **HaarCascades** in OpenCV and a simple paint application as the problem statement.

IEEE Autonomous Robotics Workshop | *Project Member*

December 2016

- Attended IEEE certified workshop on Autonomous Robotics wherein learned detailed working of various integrated circuits, sensors and actuators and accomplished 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 | *Overall Coordinator*

May 2017 - Present

(GYWS is a registered NGO run by students of IIT Kharagpur providing free of cost education to underprivileged children)

- Led a team of 80 members to run a **free school** and expand GYWS throughout India.
- Raised sponsorship of Rs. 2.2 Lakh in Jan, 2017 within the campus for the free school run by GYWS.
- Improved recognition of GYWS in social media by an increase in page likes by 2,500 within a month.

ACHIEVEMENTS

Ranked under top 6% applicants in Joint Entrance Examination 2015.