Aahan Birla
Mechatronics Undergrad

I am a maker, aspiring to be a roboticist. I am currently learning ROS.

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github.com/aahanbirla 🔗

EDUCATION

High School
Delhi Public School, R.K. Puram

04/2005 - 04/2019   *89.7%*

Courses
- PCM

Undergraduate
Manipal University Jaipur

08/2019 - Present   *CGPA:- 7.86 (Till 5th sem)*

Courses
- B.Tech Mechatronics
- Minor in Robotics and Automation

PROJECTS

Flipkart Grid 3.0 - Autonomous Robots (08/2021 - Present)
- This is a warehouse management system, made for an event flipkart grid 3.0, using 4 dummy(slave) robots which do not contain a single sensor and are controlled by a master which inputs feed from a single camera.
- The image identification is done using OpenCv and the implementation and motion of robots is carried out by ROS (Robot Operating System).

Real-time face mask detection (08/2020 - 12/2020)
- Its a real time face mask detection program made in python using keras and tensorflow(dataset training).

Obstacle Avoidance Robot (08/2018 - 09/2018)
- Developed a obstacle avoiding robot using 2 IR sensor with ultrasonic sensor, powered by arduino uno. Won an international event, MIND MAZE - Tryst'18 using this robot.

XLR8 (05/2018 - 06/2018)
- Made a line following robot with arduino, using the PID algorithm using 5 sensors. Won an international event, Fastest Line Follower - Technoxian .

Integration of ROS with Open-CV (04/2022 - 05/2022)
- Designed a software to change the feed given to drone robots to read and analyze the environment using thresh-holding, greyscale, etc.

WORK EXPERIENCE

Marketing Intern
MerchIt

08/2019 - 12/2019   *Jaipur, Rajasthan, India*

Tasks
- Strategic Outreach and Marketing.
- Supply chain management.
- Contributed to designing and implementing a better and more effective marketing strategy.

SKILLS

C++   ROS   Python   IoT   Open-CV   CSS   Robotics   HTML   Pneumatics   Networking

ACHIEVEMENTS

Runners Up (06/2018 - 07/2018)
Robowars - Technoxian (AICRA)

Second Runners Up (06/2018 - 07/2018)
Fastest Line Follower - Technoxian (AICRA)

Runners Up (02/2018)
MIND MAZE - Tryst'18 (IIT DELHI)

POSITIONS OF RESPONSIBILITY

Vice President - Society and You (05/2021 - Present)
The club has 400+ members. Was responsible for managing and leading this team. In my tenure, the club crossed the 400 mark for the first time in 5 years

Head of Events and Workshops - IEI Mechatronics (05/2021 - Present)
Led a team of 100 members, organized various workshops to educate the members about the branch and various job opportunities.

Head of Events - ACM Student Chapter MUJ - Association for Computing Machinery (05/2020 - 09/2020)
Nurtured the members knowledge by organizing various events such as hackathons, ideathons, cryptic hunts etc.

Head of Events - Mind over Matter (11/2020 - 05/2021)
Mental health is one of the most important problems to deal with, and to help with it, I joined this club when mental heath was need the most, organized many talks with recognized speakers.

CERTIFICATES

Introduction to the Internet of Things and Embedded Systems (07/2021)
Coursera

Basic Pneumatic Systems (08/2020)
Festo

Programming for Everybody (Getting Started with Python) (07/2019)
Coursera

Modern Robotics, Course 1: Foundations of Robot Motion (05/2022)
Coursera