IFTAKHAR KAUNAIN ASHHAR

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ACADEMIC BACKGROUND

Degree	Discipline	Institution	Grade	Year
Bachelor of Technology	Mechanical Engineering	Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh, India	8.599/10	2023
Senior Secondary School Certificate	Science (Physics, Chemistry and Mathematics)	Sayyid Hamid Senior Secondary School, Aligarh Muslim University, Aligarh, India	74/100	2018
Secondary School Certificate	Science, Mathematics, English, Hindi, Social Science	Our Lady of Fatima Senior Secondary School, Aligarh, India	10/10	2016

EXPERIENCE

Position	Organization	Details	Tools / Technologies	Duration
Computer Team Member	Marine Technology Society – Autonomous Underwater Club (MTS-AUV), Zakir Husain College of Engineering and Technology, Aligarh Muslim University	• I worked with my team for the Virtual Online Robotics Competition, setting up ROS on a Linux machine and running a Gazebo Simulation. • We continuously work on learning new technologies and implementing them on our vehicle.	Linux, Python, ROS, Gazebo, OpenCV, JavaScript, HTML, CSS, GitHub, Arduino, Trello	Nov 2020 - Present
Intern Front-end Developer	ONBO, New Delhi	• I worked with Vue and React to create the component-based web application. I worked with both stateful and stateless components in React. • I worked on integrating the Toast UI Calendar API to create a planner cum calendar with real-time current and upcoming task updates. • Responsibilities included, but were not limited to, taking designs from Figma and making pixel perfect pages and integrating them with APIs, where needed.	React.js, Vue.js, JavaScript HTML, CSS, SCSS, GitHub, Figma, Slack	Jun 2021- Sep 2021

PROJECTS

Name	Details	Tools / Technologies	Links
Two-wheeled Robot (Under Development)	• A simulation of a two-wheeled robot mounted with a laser scan sensor. • Working to implement obstacle avoidance, motion planning and wall-following algorithms.	URDF, Xacro, ROS, Gazebo, RViz, Python, GitHub	GitHub
Socket Cam	• A client and server script that transfers video over LAN.	Python, OpenCV, Socket GitHub	GitHub
Task Manager	• A task manager UI, with addition/deletion of tasks.	Vue.js, JavaScript, HTML, CSS, GitHub	GitHub Live
Sample Website	• A sample dynamic website made without using any frameworks.	HTML, CSS, JavaScript	GitHub Live

AREAS OF INTEREST

Programming, Robotics, Mechatronics, Machine Learning, Artificial Intelligence, Autonomous Vehicles, Software Development

TOOLS AND TECHNOLOGIES

Programming Languages	Python, C, JavaScript
Technologies	HTML, CSS, Git, Linux
Frameworks / Libraries	React.js, Vue.js, ROS, OpenCV, NumPy, Socket
Tools	GitHub, Ubuntu, VS Code, MS Word, MS Excel, MS PowerPoint

COURSEWORK

Relevant Courses	**Taken:** Applied Sciences, Mathematics, Programming, Basics of Electronics and Electrical Engineering. **Taking:** Mechatronics, Automation and Control.
Extra Courses	**Taken:** Web Development for Everybody by University of Michigan (Coursera) **Taking:** Machine Learning by Stanford University (Coursera)

ACHIEVEMENTS AND HONORS

• Qualified for Phase II of the Virtual Online Robotics Competition, 2020.
• School and City Rank 1 in National Cyber Olympiad.
• Honorable Mention in All India Essay Writing Event.
• Runner up in District Science Quiz Competition.

LANGUAGES KNOWN

English (Fluency in Reading/Writing/Speaking), Hindi (Fluency in Reading/Writing/Speaking), Urdu (Mother Tongue)