

Ibrahim Musaddequr Rahman

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EDUCATION

University of Michigan

BSE Computer Science

GPA: 3.98/ 4.00

Coursework: Data Structures & Algorithms, Discrete Math, Multivariable & Vector Calculus

Ann Arbor, MI

May 2025

Stanford Online High School

High School Diploma

GPA: 3.92 / 4.00

Coursework: Data Structures & Algorithms, Linear Algebra, Differential Equations

Redwood City, CA

2021

SKILLS

Programming Languages: C++, Python, Java, JavaScript, TypeScript, HTML/CSS, LabView

Frameworks & Interfaces: ROS, Gazebo, Bootstrap, Firebase, JQuery, React

Operating Systems: Windows, MacOS, Ubuntu, Fedora

PROJECT EXPERIENCE

Fastr Food, MHACKS-14 Hackathon Submission

Backend Developer

- Developed web app to crowdsource Dining Hall Wait Times across 4 locations
- Interfaced with a Firebase and Google Maps to factor in Commute Times + Line Lengths
- Collaborated on a cross-university team to win Best Beginner Hack / 28 and 2nd Best Google Cloud Hack / 60

Ann Arbor, MI

October 2021

RESEARCH EXPERIENCE

National Science Foundation

REU Student Researcher

- Developed machine learning pipeline to imitate swarm behavior
- Created software suite to make swarm simulations more accessible across research team

Morgantown, WV

May 2022 – July 2022

West Virginia University Interactive Robotics Lab

Undergraduate Researcher

- Developed ROS + Gazebo Simulations to model Robot-Based Pollination
- Wrote Kinematics and Wheel Control Code for Fast Traverse Robot

Morgantown, WV

May 2020 – October 2021

LEADERSHIP EXPERIENCE

FIRST Robotics Competition (FRC) Team 2614

Lead Programmer, Lead Strategist, Secretary

- Led 10-person Programming Subteam to develop control algorithms and win Autonomous Award
- Represented team in Strategic Discussions with competitors and partners to win 4 Regional Events
- Coordinated personnel allocation of 40-person team throughout 4 locations during competition

Morgantown, WV

2016 – 2021

Boy Scouts Troop 49

Eagle Scout Project

- Coordinated 20-person work crew to build Retaining Wall with Seating
- Interfaced with Suppliers and Sponsors to buy and move 12+ tons of material

Morgantown, WV

September 2019 – August 2020