

Mohid Rattu

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

B.S. in Electrical and Computer Engineering, Minor in Additive Manufacturing

Aug. 2023 – May 2027

Completed Coursework: Introduction to Electrical & Computer Engineering, Principles of Imperative Computation, Concepts of Mathematics, Rapid Prototyping Technologies

Sachem High School East

Farmingville, NY

Ranked 5th, GPA: 4.0

Sept. 2019 – June 2023

TECHNICAL SKILLS AND CERTIFICATIONS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS

Developer Tools: Git, VS Code, WordPress, Unqork, Fusion 360, Solidworks, Ultimaker Cura, PrusaSlicer, WPILib

Certifications: 5G Technologies Certification from Qualcomm, Novice Configurator from Unqork(Web Development)

EXPERIENCE

First Robotics Competition Team 263

September 2019 – June 2023

Lead Programmer

Ronkonkoma, NY

- Led the programming team in the First Robotics Competition, guiding the development of autonomous & teleoperated robot functionalities using Github for version control
- Collaborated with team members to integrate hardware components with software solutions in Java, ensuring seamless functionality during competition matches
- Contributed to strategy sessions, providing technical insights to develop winning game plans & improve team performance, earning awards in regional competitions

Unqork

June 2021 – August 2021

Web Development Intern

New York, NY

- Collaborated with the engineering team to gain insights into web development processes & best practices
- Engaged in Quality Assurance (QA) testing of the No-Code Software, with a focus on web applications & websites
- Successfully completed the Unqork Novice Developer certification, demonstrating expertise in web development

Coding Minds Academy

June 2022 – April 2023

Computer Science Instructor

Irvine, CA

- Conducted one-on-one teaching sessions to students nationwide, specializing in languages such as Python & Java for competition in USACO
- Constantly update knowledge & skills in both teaching techniques(Replit & Leetcode) & programming languages to deliver high-quality education to students
- Demonstrated a strong ability to adapt teaching style to suit individual student needs through one-on-one sessions, resulting in improved student comprehension & performance

PROJECTS

Resume Failed Print Script | *Python, 3D Printing*

June 2024

- Implemented functionality to parse 3D Printer G-code files & enabled users to input essential parameters
- Designed algorithms to analyze the G-code file & other inputs to precisely continue printing from the point of failure
- Developed an intuitive command-line interface allowing users to interact seamlessly with the script, providing clear instructions and feedback throughout the editing process

Custom Mechanical Keyboard | *Fusion 360, Visual Studio, C++, 3D Printing, Soldering*

December 2023

- Designed & assembled a personalized mechanical keyboard using Teensy micro-controller & soldering
- Employed 3D printing for casing, enhancing both functionality & customizability
- Designed & programmed a customized firmware for a mechanical keyboard, utilizing C++