Mahmudul Rapi

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Education

Princeton University, Princeton, NJ 09/2020 - Present

B.S.E in Electrical & Computer Engineering, Expected Graduation Date: May 2024

GPA: 3.93/4.00

Minor: Applications of Computing (CS), Statistics & Machine Learning

Relevant Coursework: Data Structures & Algorithms, Systems Programming, Logic Design, Power Electronics, Electronic Circuit Design

Experience

Princeton University Computer Science Department - Course Grader 09/2021 - Present

- Grading students programming assignments for COS226, the Data Structures and Algorithms course taught at Princeton.
- Evaluating programming assignments for code correctness, efficiency, and style.

Khan's Tutorial - 8th Grade Instructor 11/2020 - Present

- Teaching 8th grade mathematics and writing to prepare students for the New York State Common Core examination and improving students' performance at school.
- Grading students' classwork and diagnostic exams to give feedback and track progress.

Centers for Disease Control and Prevention - Data and Program Evaluation Intern 06/2021-08/2021

- Extracted and abstracted data from CDC career program selection reports for reporting the effectiveness of current selection measures and strengthening future selection.
- Generated visuals, graphs, tables using Excel for the first draft of the Division's Selection Report.
- Worked on a content inventory and cataloging all contents on Science Office SharePoint website for improving user experience and UX design.

Princeton University Office of Information Technology - Closed Captions Editor 09/2020-05/2021

- Closed captioned videos (content such as lectures, talks, guest speeches) posted on Princeton's Media Central website to ensure correct readability.
- Worked on external website census project to manually identify and sort out hundreds of Princeton affiliated website links which were old and non-functioning.

Leadership

Princeton Racing Electric - Electrical Engineering Team Member 09/2021 - Present

- Participating in Formula Hybrid competition to design high performance electric-only race cars.
- Working on the GLV (grounded low voltage) power circuit subteam, implementing power converters, and testing voltage regulators for powering the low voltage circuits in the vehicle.

Princeton High Powered Rocketry - Electrical Subteam Lead 09/2020 - Present

- Leading the design of the electrical components placed in an L1 rocket payload and implementing sensors to track altitude, temperature, and pressure of our rocket in flight.
- Teaching team the basics of Python programming, Raspberry Pi, Arduino, PCB design.

Skills

Programming: Java, C, Python, HTML, CSS, Javascript, Git/Github, R/RStudio, Verilog, Microsoft Office – Excel, Word, PowerPoint