Syed Ahmad Shah

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Education

STEVENS INSTITUTE OF TECHNOLOGY   Hoboken, NJ
BE, Software Engineering. GPA: 3.7 / 4   May 2025
Coursework in Entrepreneurial Design, and Algorithmic Thinking

Experience

IDTECH   Princeton, NJ
Robotics Engineering Instructor   May–August 2022
- Instructed individuals at Princeton University in robotic design utilizing Vex modules and devices.
- Taught fundamentals of code structure, and C++ syntax and associated libraries.

Assistant Health Director   May–August 2022
- Responsible for updating medical logs and distributing medication at appropriate times.
- Provided medical attention to patients suffering from injuries.

Projects

PATHFINDING VEHICLE   Hoboken, NJ
Designer and Engineer   April 2022
- Programmed logic to ensure all electronical and mechanical objects worked in line with one another, and ensured the vehicle utilized the most efficient path to its destinations.
- Formulated the 3D design of the pathfinding vehicle, considering all apparatuses that must be attached.
- Arranged ultrasonic sensors to provide obstacle avoidance for close range objects.
- Configured a float atop the vehicle that provided its position, via the use of a lidar system.

HUMIDITY, TEMPERATURE, AND LIGHT SENSOR   Hoboken, NJ
Program Developer and Electrical Engineer   November 2022
- Programmed a device that recorded and displayed humidity, temperature, and surrounding light values.
- Soldered all the required components of the device to provide a slimmer design and more solid connections than that of a breadboard circuit.
- The device also displayed the current temperature by lighting a series of lights which could only be interpreted using a custom-made decoder sheet.

Leadership & Activities

HACKATHON   NJ
Planner and Back-End Developer   2019
- Assigned specific tasks to different members to maximize efficiency and quality of the final product.
- Acquired 9th place amongst 150 groups.
- Project's focus was on ease of accessibility to distributing aid to a cause of the user's choice.
- Designed Back-End code for the project in Python.
- Assisted in Front-End development, requiring HTML and CSS.

Skills & Interests

Technical: Knowledge of JavaScript, Python, CSS, HTML, and C++.
Experience with Microsoft Office, Visual Studio, SolidWorks, React Native.
Language: English (native), Urdu (intermediate), Hindi (intermediate), Arabic (beginner).
Interests: Hiking tours, Soldering, Weightlifting, Building applications, and Tutoring.