Amar Maksumić

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Objective

Computer Science and Computer Systems Engineering student interested in the applications of Control Systems, Computer Vision, and Machine Learning in robotics and automotive fields.

Education

Rensselaer Polytechnic Institute, Troy, NY · August 2021 - December 2024
B.S. in Computer Science and Computer & Systems Engineering
Minor in Literature and Creative Writing
GPA 3.95

Townsend Harris High School, Flushing, NY · September 2017 - June 2021
Advanced Regents Diploma with Honors in Math and Science
Concentration in Computer Science and Mechatronics
UW GPA 99.17%

Relevant Coursework

CSCI 2200 - Foundations of Computer Science · Spring 2022
- Discrete math course covering topics like logic, number theory, proofs, combinatorics, probability, and their applications in computer science.

ENGR 1200 - Engineering Graphics and CAD · Spring 2022
- CAD lab on how to use Siemens NX for drafting, designing, and assembling models.

CSCI 1200 - Data Structures · Fall 2021
- Lecture and lab course on how to utilize various data structures in C++. Learned how several data structures function and developed custom data structures.

ECSE 1010 - Intro to Electrical, Computer, and Systems Engineering · Fall 2021
- Lab work with basic electronic components (i.e. resistors, capacitors, inductors, diodes, Op Amps), utilizing matrix algebra and differential equations.

Skills

Languages:	C, C++, Python, Java, JavaScript, TypeScript
Software:	JetBrains Suite, VSCode, Terminal, Matlab, LTSpice, OnShape, SolidWorks, Fusion360, Siemens NX
Operating Systems:	Windows 7, 10, & 11, Ubuntu 18.04.x & 20.04.x, ROS & ROS2

Experience

Electrical Software Engineer, Rensselaer Motorsport, Troy, NY · March 2022 - Present
- Worked on ECU firmware, wireless telecoms, and sensory kits on the competition car.

Media and PR Lead, RPI Robotics, Troy, NY · Fall 2022
- Manage social media accounts and outreach for events within the college.

Computer Repair Technician, TA PC Repair, Astoria, NY · Summer 2018
- Learned about the various components that make up a functioning machine.
- Performed hardware and software fixes and upgrades on personal and business machines.

Activites

Software Engineer, RPI Robotics, Troy, NY · Aug 2021 - Present
- Worked on various software projects utilizing ROS and ROS2.

Coding & Electrical Engineering Mentor, FRC 2601, Flushing, NY · Nov 2021 - Present
- Taught topics in machine learning, computer vision, control systems, and electronics.

Team Lead (VP and Coding Lead), FRC 2601, Flushing, NY · June 2019 - June 2021
- Led a variety of projects in mechanical, electrical, and software engineering. Responsible for overseeing all manufacturing and testing operations during competition season.

Academic Honors

RPI Dean's Honor List	Fall 2021, Spring 2022
Mu Alpha Theta National Math Honor Society	2020, 2021
New York State Science Honor Society	2020, 2021
Certificate of Outstanding Scholarship in Computer Science A	June 2021
Certificate of Outstanding Scholarship in Mathematics	June 2021
Plaque for Highest Honors in Robotics	June 2021
Excellent Progress in Spanish Language Study	June 2020