Amir Olagunju

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Engineering Co-op Program

Education

The University of Alberta   Expected Graduation 2028
- Bachelor of Science in Mechanical Engineering - 3.5 CGPA
- First Class Standing - 2023/2024

Webber Academy - Calgary, AB   August 2020 – June 2023
- Graduated with a 4.0 GPA
- Recognized for achieving the highest overall average in Grade 12 Physics

Experience

Mechanical Member, Autonomous Robotic Vehicle Project Club – Edmonton, AB   January 2024 – April 2024
- Collaborated with team members to design and build underwater robotic vehicles for competition
- Participated in weekly meetings to discuss project progress, troubleshoot issues, and plan the next steps
- Acquired proficiency in SolidWorks to craft designs intended for subsequent 3D printing

Apprentice Cook, Calgary Stampede – Calgary, AB   June 2022 – August 2022
- Executed multiple chefs' orders efficiently, maintaining high-quality standards in a fast-paced environment
- Ensured prompt and accurate delivery of up to 4000 customers' orders while keeping customer satisfaction
- Managed and resolved customers' order issues promptly and professionally

Volunteer, Calgary Public Library – Calgary, AB   July 2022 – August 2022
- Facilitated children's reading development by providing individualized support and encouragement
- Taught coding techniques on Scratch to children, fostering their interest and proficiency in technology
- Organized activities and reading sessions to promote learning and reading among children

Projects

LK Cokoino 4DF Robot Arm for Arduino
- Assembled a robot arm using multiple servos and wiring components from LK Cokoino
- Developed and processed code on Arduino to manage various functions, including servo power and controller operations
- In Progress: Integrating the robotic arm onto a mobile car to extend its capabilities

Robotics Builder, Webber Academy Robotics Club – Calgary, AB   August 2022 – June 2023
- Achieved third place in Alberta for the 2023 First Tech Challenge, showing strong teamwork and technical skills
- Attended weekly meetings to contribute to the robot's design, building, and adjustment for competition
- Displayed exceptional ability to operate the robot effectively even in high-pressure situations, especially when success was at stake

Conways Game of Life   github.com/amirolagunju14/ConwaysGameofLife
- Developed an interactive visualization tool to display the evolution of cellular automata patterns in real-time, enhancing the understanding and exploration of the game's dynamics
- Optimized the algorithm for calculating cell transitions to improve performance and scalability, allowing for simulations of larger grids and longer time frames
- Utilizes the programming language C++

Skills

Programming Languages: Python, Java, C++
Technical Skills: SolidWorks, MS Office, Arduino
Interpersonal Skills: Leadership in Team-Based Environments, Positive Attitude, and Punctuality