CHRISTIAN SAYERS

Mechatronics Engineer

(289) 383-2006
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SUMMARY OF QUALIFICATIONS

Proficient: Python, C++, Java, Android Studio, MATLAB, Git, Microsoft 365, Adobe Suite, SolidWorks, SEO
Familiar: HTML, JavaScript, CSS, Arduino, Rust, AutoCAD, R Studio, Flask, Spring, CMake

WORK EXPERIENCE

Audio Excellence Canada, Markham
Web Developer Intern | September 2022 – January 2023

- Built a high-performing website to streamline shopping process, boosting traffic and conversions.
- Utilized SEO to increase traffic by 50% and raise the businesses subscribers to 35K

The Globe and Mail, Toronto
QA Testing Engineering Intern | January 2022 – April 2022

- Collaborated with a team to test new features and validate the Sophi software
- Effectively used Jira, Git, and multiple environments to implement new features safely

Liten's Automotive Group, Vaughan
Product Engineering Intern | September 2020 – January 2021

- Tested, calibrated, and improved a temperature sensing device alongside a team of engineers

Polaris Intelligence, North York
Software Testing Analyst | January 2020 – April 2020

- Worked with a team of developers validating different analytical software and web applications

PROJECTS

Smart Pill Dispenser | Java/Arduino

- Engineered a smart pill dispenser with a mobile app for medication management
- Implemented remote scheduling and dosage tracking features in the app
- Coded an Arduino Uno R4 WiFi for precise pill dispensing synced with the mobile app
- Collaborated across teams for integration with API database and the apparatus

Autonomous Rover | Arduino

- Developed autonomous rover to execute a search and rescue mission
- Programmed navigation algorithms for obstacle avoidance
- Integrated IR sensors and accelerometers to ensure accurate mapping of surroundings
- Conducted tests to optimize mission success

Guitar-playing Robot | C++

- Joined a team to create a guitar-playing robot using Lego, Tetrix, and 3D printing
- Innovatively engineered solutions for guitar-playing functionality
- Communicated effectively for design optimization and performance enhancement

EDUCATION

University of Waterloo, Mechatronics Engineering
Bachelor of Applied Science | September 2019 - April 2024

COURSES

ECE 457A - Co-operative and Adaptive Algorithms

- Explored heuristics, game theory, search algorithms, and adaptive learning to optimize problems

ECE 459 - Programming for Performance

- Analyzed computer systems for performance bottlenecks, implemented concurrency techniques, and optimized multicore processors for high performance.