Kobe Barrette

Creative Developer • Analytical Thinker • Bilingual (EN/FR)

Projects

Autonomous Pathfinder

• Designed and implemented a small-scale vehicle capable of navigating a maze on its own

• Constructed electrical circuits for motor/steering control and ultrasonic sensor integration

• Developed the vehicles electrical schematics incorporating all electrical components included in the design

Arduino

Innovation Design Proposal

• Designed a concept for a pair of battery-operated roller shoes

• The shoes featured retractable wheels and a self-charging battery via friction

Microsoft Office Suite

Contact

kbarre05@uoguelph.ca

705-221-1186

LinkedIn

Experience

RidgeTech Automation | Control System Specialist (Co-op)

Jan 2024 - Present | Cambridge, ON, CAN

• A control system developer and consulting company having provided solutions for over $1 billion worth of industrial equipment

• Utilized AutoCAD to work with 2D building plans for high priority clients

• Adapted an Agile Scrum framework participating in daily stand-ups, weekly demo sessions, and managing jobs using Atlassian's JIRA

• Explored the fundamentals of ladder logic through RSLogix PLC programs

Department of National Defence | Engineering Student Project Manager (Co-op)

May 2023 – Aug 2023 | Ottawa, ON, CAN

• Worked on the Chemical Biological Radiological Nuclear explosives Enhancement (CBRNe) project to procure advanced (multi-million dollar) engineering capabilities for the Canadian Special Operations Forces Command (CANSOFCOM)

• Researched complex engineering systems, some of which include night vision goggles, naval remote turret systems and autonomous explosive drones

• Elevated engineering project management abilities through the Project Management Body of Knowledge (PMBOK)

Education

BEng, Engineering Systems and Computing

UGuelph, 2021

• Worked with function generators and oscilloscopes to characterize electronic devices, such as diodes and transistors

• Designed circuits using logic gates for programming FPGA devices and explored logic gate designs using transistors

• Studied the fundamentals of electricity and magnetism, as well as explored higher-order circuits which incorporated inductors and capacitors

• Developed the ability to reproduce thermal, hydraulic, and mechanical systems using electrical schematics

Accolades

Academic | Maintaining a 3.6 (83%) GPA

Certificate | Received Mechanical Design certification administered by Dassault Systèmes' Solidworks