

Kobe Barrette

Creative Developer • Analytical Thinker • Bilingual (EN/FR) • [LinkedIn](#)

Projects

Reverse Engineered Sewing Machine

- Participated in disassembling and replicating sewing machine components in solidworks
- Led the assembly and animation team in recreating the system within 3D software

Solidworks

Autonomous Pathfinder

- Designed and implemented a small-scale vehicle capable of navigating a maze on its own
- Performed tipping point analysis using centre of mass and centre of gravity calculations to enhance vehicle integrity
- Participated in vehicle design and assembly using Meccano kit

Arduino

3D Printed Kinder Toy

- Designed a video-game inspired toy capable of being disassembled (by a child) and placed inside a kinder maxi egg
- Created and printed components using 3D plastic filament printer
- Generated Detailed 2D component drawings

Solidworks, Microsoft Office Suite

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
- Configured and trained Cognex camera's using Vision In-sight to provide autonomous assistance

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 mechanical 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)

Newmont Gold Mine | IT Support (Student)

May 2022 – Aug 2022 | Timmins, ON, CAN

- Worked as part of the IT team at one of the **world's largest** gold mining operations, with sites operating in **9** different countries.
- Performed IT infrastructure work pertaining to installing and configuring IT switches, fibre-optics, UPS', and servers
- Performed hardware repairs and upgrades to various pc types

Accolades

Academic | Maintaining a 3.6 (83%) GPA

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

Education

BEng, Engineering Systems and Computing

UGuelph, 2021

Email | kbarre05@uoguelph.ca **Phone** | 705-221-1186

