Systems Design Engineering
University of Waterloo, '18

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Skills and Tools

Software
Java/C++/C/Matlab
ROS/Linux/Dart/Flutter/CAN
Python/Javascript/HTML/CSS
Software Design/Architecture

Hardware
Embedded Control Systems/IOT
Circuits/PCB Design/Prototyping
Enclosures/Components

Mechanical
Solidworks/Fusion360
Pneumatics/Hydraulics/Electrics
Machining/Manufacturing
DFM/Additive Manufacturing

Product Design
UI/UX Design/Graphics
Sketches/Wireframes/Mockups
User-centered Design/Testing
Photoshop/Sketch

Education

University of Waterloo
Systems Design Engineering '18
· CGUC Student Council VP
· Courses: Autonomous Mobile Robots
        Machine Intelligence
        Computational Neuroscience
        Complex Systems

Interests

Guitar   Sustainable Development
Climbing   Mountain Biking
Scuba Diving   Alpine Sports
Environmentalism   Reading

JARED ▲ BARIBEAU

Work Experience

Co-founder, CTO | Demine Robotics Cambodia, 2018-Present
· Co-founded a robotics company to make landmine clearance faster and safer.
· Led the development and launch of 2 products: a bomb excavation implement, and
   a remote control retrofit & camera kit for construction equipment.
· Cleared 100,000 m2 (25 acres) of land containing mines and UXO.
· Led a small, scrappy team of 5 through product development, field trials,
   patents, machine accreditation, and launch of clearance operations.
· Worked across domains including embedded systems, electric and hydraulic
   actuators, video streaming, android dev, wireless comms, and UI/UX design.
· Accidentally touched a live bomb in the ground once.

Instructor, Technology and Project Management | Cambodia, 2019-20
National University of Management

Software Engineer (Intern) | Uber USA, Summer 2017
· Setup system for automated integration and load testing for new microservice.
· Implemented new feature logging all changes to Uber vehicles.

Software Developer | Leysin American School Switzerland, Fall 2016
· Designed and built student attendance app on Rails, used school-wide every day.

Product Designer | Nulogy Canada, Winter 2016
· Designed UX and interactions for "Data Discovery Dashboards" mjoy new feature.
· Championed introduction of a powerful user interaction analytics platform.

Business Development Associate | Shoplogix Canada, Summer 2015
· Generated international B2B SaaS sales in the manufacturing industry.
· Initiated worldwide sales effort with a top 3 automotive manufacturer.

Software Developer Co-op | TD Bank (Innovation Lab) Canada, Fall 2014
· Designed and built an interactive "Smart Billboard" and other prototypes.

Electromechanical R&D Co-op | Stein Industries Inc Canada, Winter 2014
· Designed PCBs and coded an embedded rocket engine fuel injection controller.

Tool and Die Manufacturing Intern | ArmoTool Fall 2013
Mechanical Designer | BOS Automation 2012-13

Projects and Volunteering

Science Board Member | International Dialogue on Underwater Munitions   Present
Dolphin -- Open source IOT modules and cloud for use in Cambodia 2020
Mentor, Former Captain | FIRST Robotics Competition 2011-17
Director of Technology | CUTC Foundation 2016
Handle -- A hockey training device using computer vision and lasers 2017

+12 more... at www.jareds.site