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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 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.
- Guided small, scrappy team of 5 through product development, accreditation, field trials, product patenting, 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 automated micro-service integration and load testing.
- Implemented entity change logging for vehicle history.

Software Developer | Leysin American School Switzerland, Fall 2016

- Designed and built student attendance app used school-wide every day.

Product Designer | Nulogy Canada, Winter 2016

- Designed interactive "Data Discovery Dashboards" new major 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

- Built a Smart Display and other experimental prototypes for the bank.

Electromechanical R&D Co-op | Stein Industries Inc Canada, Winter 2014

- Designed PCBs and wrote code for 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

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: Autonomout Mobile Robots
Machine Intelligence
Computational Neuroscience
Complex Systems

Interests

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