JOSHUA KEARNEY

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EDUCATION

B.Eng. Mechanical Engineering
Memorial University
GPA(CGPA): 4/4 (3.56/4)

Sep. 2014 – Apr. 2019

ENGINEERING EMPLOYMENT

Vehicle Software R&D Engineering Intern
General Dynamics Mission Systems
Ottawa, ON

Sep. 2018 – Dec. 2018

- Developed and implemented a military networking software for next-gen vehicle smart display computers
- Created and tested embedded Linux software, developing a system database (Xilinx/Yocto, Embedded C)
- Collaborated through an Agile development cycle using Git, Bitbucket, and Jira

Electromechanical Systems Engineering Intern
DuXion Motors Inc.
St. John's, NL

Jan. 2018 – May 2018

- Designed an electric aircraft motor cooling system that reduced the system temperature by 50%
- Developed FEA/CFD/CAD models to optimize thermal performance of a high-power density electric motor

Mechanical Engineering Intern
Kraken Robotics Inc.
St. John's, NL

May 2017 – Aug. 2017

- Designed and manufactured a proprietary underwater electronic packaging system for an AUV vehicle
- Reduced cost on AUV vehicle fins by 90% through implementing an in-house injection molding process

Armored Vehicle Testing Engineering Intern
Rheinmetall Landsysteme Defence GmbH
Unterlüß, Germany

Sep. 2016 – Dec. 2016

- Developed the electronic packaging system that protects the Puma IFV battle tanks communication network
- Environmentally tested military systems to military standard guidelines (MIL-STD-810)

Electronic Systems Engineering Intern
Bell Canada
St. John's, NL

Jan. 2016 – May 2016
May 2015 – Aug. 2015

- Designed and manufactured ruggedized electronic enclosures, installed and repaired radio board modules

ACHIEVEMENTS

Electromechanical Systems Design
Eastern Edge Robotics

Jan. 2017 – Present

- Developed distributed system control software and embedded system software for an underwater robot
- Designed and manufactured an underwater robotic vehicle chassis using CNC router
- Competed in 2017 & 2018 International MATE ROV Competitions (CA, WA), placing 5th & 8th overall

SKILLS

Programming:	Embedded C | Python | C++ | Embedded Linux | Bash | MATLAB | Arduino | ARM/Mbed
Software:	Git | Docker | Xilinx/Yocto | Jira/Bitbucket | Unigraphics/SolidWorks | Ansys | PCB Design Software
Instrumentation:	Oscilloscope | Multimeter | 3D Printing | Laser Cutting | CNC | Hand/Power Tools
Certifications:	Red Cross First Aid | Mental Health First Aid | Canadian Driver's License

EXTRACURRICULAR

Projects:	Portfolio Website | Hackathon Chrome Extension |Magnetically Controlled Lamp
Volunteering:	Head Coach of Competitive Swim Team | Resident Assistant & Engineering Tutor
Interests:	Robotics | Embedded Systems | Web Dev | Reading | Swimming | Travel
Recent Reads:	When Breath Becomes Air | Gödel, Escher, Bach | Mindset | Snow Crash