JOSHUA P. KEARNEY

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Education

Bachelor of Mechanical Engineering (Co-op)
Sep. 2014 – Apr. 2019

Memorial University of Newfoundland

GPA(CGPA): 4/4 (3.56/4)

Employment

Vetronics R&D Software Engineering Intern

General Dynamics Mission Systems

Ottawa, ON
Sep. 2018 – Dec. 2018

- Created an SNMP networking protocol for a military grade smart display unit
- Developed and tested embedded Linux software and developed a system database (Embedded C)
- Collaborated through an Agile development cycle using tools such as Git, Bitbucket, Jira, and Docker

Electromechanical Systems Engineering Intern
Jan. 2018 – May 2018

DuXion Motors Inc.

St. John's, NL

- 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

Robotic Vehicle Component Design Intern
May 2017 – Aug. 2017

Kraken Robotics Inc.

St. John's, NL

- Designed and manufactured an 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 Protection Intern
Sep. 2016 – Dec. 2016

Rheinmetall Landsysteme Defence GmbH

Unterlüß, Germany

- 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 System Engineering Intern
Jan. 2016 – May 2016
May 2015 – Aug. 2015

Bell Canada

St. John's, NL

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

Achievements

Electromechanical Systems Design
Jan. 2017 – Present

Eastern Edge Robotics

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

SKILLS

Programming:	Embedded C	Python	C++	Linux/GNU	Bash	MATLAB	Arduino	Mbed
Software:	Git	Docker	Embedded Yocto	SolidWorks	Unigraphics	Ansys Fluent	PCB Design Software
Machinery:	CNC Milling	3D Printing	C02 Laser Cutting	Power & Hand Tools
Certifications:	Red Cross First Aid	Mental Health First Aid	Canadian Driver's License

EXTRACURRICULAR ACTIVITIES

Projects:	Portfolio Website	Magnetically Controlled Lamp	Custom 3D printer
Volunteering:	Head Coached Competitive Swimming	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