JOSHUA KEARNEY

Junior Mechanical Engineer

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EDUCATION

B.Eng. Mechanical Engineering
Sep 2014 – Apr 2019

Memorial University
St. John's, NL

Cumulative GPA: 3.61/4 (81%)

ENGINEERING EMPLOYMENT

Vehicle Software R&D Engineering Intern
Sep 2018 – Dec 2018

General Dynamics Mission Systems
Ottawa, ON

- Developed and implemented a military networking software for a next-gen vehicle smart display computer
- Coded and tested embedded Linux software, creating a database to access Linux drivers (Yocto/Embedded C)
- Collaborated through an Agile development cycle using Git, Bitbucket, and Jira

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%
- Created FEA/CFD/CAD models to optimize thermal performance of a high-power density electric motor

Mechanical Engineering Intern
May 2017 – Aug 2017

Kraken Robotics Inc.
St. John's, NL

- Designed and manufactured a proprietary underwater electronic system for an AUV vehicle
- Reduced cost on AUV vehicle fins by 90% through implementing an in-house injection molding process
- Set up, launched, and recovered an AUV vehicle during open sea trials

Armored Vehicle Testing Engineering 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
- Created a project plan, organized engineering meetings, and designed military engineering documentation
- Environmentally tested military systems to military standard guidelines (MIL-STD-810)

Electronic Systems Engineering Intern
May - Aug 2015, Jan - May 2016

Bell Canada
St. John's, NL

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

EXTRACIRRCIULAR

Software Designer
Jan 2017 – Present

Eastern Edge Robotics
St. John's, NL

- Designed an underwater robotic vehicle chassis and manufactured using CNC router
- Developed computer vision and embedded system communication robotic technology
- Competed in 2017 & 2018 International MATE ROV Competitions (CA, WA), placing 5th & 8th overall

SKILLS AND ACTIVITIES

Programming:	MATLAB **|** Python **|** Embedded C **|** Linux/Bash **|** Arduino **|** ARM
Software:	Git **|** Docker **|** Xilinx/Yocto **|** Jira **|** Unigraphics/SolidWorks **|**GD&T **|** Ansys **|** Fluent
Instrumentation:	Electronic Test Equipment **|** 3D Printing **|** Laser Cutting **|** CNC **|** Hand/Power Tools
Projects:	Magnetically Controlled Lamp **|** Vehicle Detection Program **|** Python Web Scraping Program
Volunteering:	Competitive Swim Team Head Coach **|** Resident Assistant & Engineering Tutor
Interests:	Robotics **|** Reading **|** Swimming **|** Travel