ROBIN MURPHY

Computer/Hardware Engineering Student

@ rpmurphy@mun.ca Newfoundland, Canada https://github.com/rpmurphy27

EXPERIENCE

Founder & CEO

Audyse Technology

St. John's, Newfoundland

- Third Place Finalist in the 2020 Mel Woodward Cup
- Winner of 2020 Ignite Fund
- Participating in Propel ICT accelerator program.
- Developing Active-Noise-Cancelling module for embedded systems.
- Designed and Developed iOS and Android OS mobile app

Hardware Developer

Core Avionics and Industrial – [CoreAVI]

Sept. 2019 – Present Ottawa, Ontario

- Designed CoreAVI Rear Transition Module to comply with VITA 46.10 for CoreAVI AMD E9171 XMC Card.
- Assisted with Hardware Design of test cards for CoreAVI AMD E9171 XMC card.
- Developed skills in hardware design and debugging, using company standards and ensuring designs correspond to VITA standards.
- Completed hardware level debugging and testing on CoreAVI Graphic Processing Card.

Project Planning Engineer

Cahill-Ganotec – [The Cahill Group]

Jan 2019 – May 2019 Muskrat Falls, Newfoundland

- Project Management - Job Design and Requirements, Daily tracking of job completion using Microsoft Excel and Kiewit OPS software to calculate worked hours versus estimated hours.
- CAD - Designed Single Line Electrical schematics for electrical power distribution construction.
- Created wireless server for easy submittal of daily time-sheets.
- Performed on-site visits with electrical foreman.

ACHIEVEMENTS

- Skills Canada Newfoundland Gold Medalist in Hardware Electronics
- Team lead for international 1st place winning poster and 3rd place Engineering Presentation at MATE Remotely Operated Vehicle competition

SKILLS

C, C++, C#, Matlab, Windows, Linux
Python, Java
SolidWorks, MasterCAM, 3D Printing
Written and Verbal Communication
Time Management
KiCAD PCB Design

HONOURS & AWARDS

- Hockey Newfoundland - Wayne Mercer Memorial Scholarship
- O'Donel High School Technology Award
- Canadian Drone Pilot License

INTERESTS

3D Printing | Drones | Robotics | Hardware Design | Arduino/Raspberry Pi | Computer Programming

EDUCATION

Memorial University of Newfoundland

Bachelor of Computer Engineering

Sept 2017 – Present

Co-Operative Program, Class of 2022

VOLUNTEER

O'Donel High School – [OD-4D]

- Electronics and Software consultant.

PROJECTS

Single Board Computer - Drone Controller

- ARM Cortex A53 Embedded Processor
- Intel Cyclone IV GX FPGA
- NXP NXh3670 Bluetooth Low Energy controller
- Single Board Computer created with a LS1012A processor. SBC contains 8GB of RAM, 32GB of internal storage, as well as various sensors and support for USB 3.0 and Bluetooth.
- Created schematic and Printed Circuit Board layout in KiCAD software

First Technology Underwater ROV

- Developing a underwater remotely operated vehicle for First Technology Association of Newfoundland and OceanQuest
- Remotely Operated Vehicle will be used to display Newfoundland marine life to high school students