ROBIN MURPHY

Computer/Hardware Engineering Student

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

EXPERIENCE

Founder & CEO
Audyse Technology

⚲ St. John's, Newfoundland

- Finalist in the 2020 Mel Woodward Cup
- Participating in Propel ICT accelerator program.
- Developed Active-Noise-Cancelling module for embedded systems.

Hardware Developer
Core Avionics and Industrial – [CoreAVI]

📅 Sept. 2019 – Aug. 2020   ⚲ Ottawa, Ontario

- 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.
- Debugged CoreAVI graphical processing module
- Created Design Verification and Acceptance Test reports
- Completed hardware level debugging while troubleshooting boot up errors on a Infineon Power Management Integrated Circuit.

Project Planning Engineer
Cahill-Ganotec – [The Cahill Group]

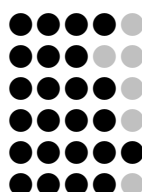📅 Jan 2019 – May 2019   ⚲ Muskrat Falls, Newfoundland

- 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   Hiking   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 - HUD

- 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