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ID: 20472922 | 3B Physics and Astronomy

I am a co-op student with expertise in technology, software, business and problem solving seeking employment with an innovative employer starting in May 2016.

Christie Digital

Worked both independently and with a team of software engineers to develop new and improved modules for an advanced projection mapping automation tool

Designed, coded and tested my own additions, bringing improved machine vision intelligence to the software AutoMap.

Implemented Python and AutoHotkey scripts to maximize efficiency while debugging

Employer feedback

"Carter started the term with a fairly weak background in programming. Throughout the term he showed an exceptional capacity to learn and improve that particular skill. He was able to successfully integrate two new third party libraries into our software. Each added a new dynamic to the software that was previously unavailable."

-Derek Scott

IQC

Led my own research project to crack a commercial quantum cryptography system in research group (www.vad1.com/lab) led by Professor Vadim Makarov and four graduate students.

Exercised ingenuity, discipline and precision while building laser and cooperative thermal electric cooler controller involving electronics, free-space and fibre-optics.

Completed university-certified training: Lab Safety, WHIMIS, High-Power Laser Use, Cryogenics, Compressed gas, Electronic Soldering

Employer feedback

"He took every task we have given him with enthusiasm and efficiency"

"Carter has notably advanced the project, set up the crucial equipment, performed the most important measurements, and obtained useful results. This has allowed us to subsequently involve a postdoc and PhD student for a short additional time to quickly do additional measurements and complete this project. It is currently being finished with the hope that we will make a good journal publication."

-Vadim Makarov

Scarsin

Exercised acute attention to detail while integrating client business models and data into I2E (Integrated Insight Environment) software

Displayed exceptional written and verbal skills when training clients in basic use of I2E and when working with client managers to make model improvements

Clients were consistently impressed by the quality of service and the effectiveness of my reporting

Employer feedback

"His attention to detail and process and his sense of ownership over his actions and results has been of significant benefit in our project activities"

-Ray Martin

UW housing

Chosen through competitive application and interview process to build a strong and supportive residence community by leading and living with forty students while attending university full-time.

Responsible to plan activities which help first year and international students get to know each other, have fun, and learn skills important for success at university.

Worked as a Manager for several Waterloo open houses for prospective students.

Effectively handled high stress on-call situations involving lifesaving first-aid and emergency services.