**Cole Fuerth**

1705 Lakeshore Road 215

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(519) 300-2877

[colefuerth@gmail.com](mailto:colefuerth@gmail.com)

SUMMARY OF QUALIFICATIONS

* Experience in professional programming environments, mostly Studio5000 and AtmelStudio, a Visual Studio-based IDE with debugging and simulation tools for micros
* Skilled with C programming on Micros
* Experience working with UART, I2C, BLE protocols
* Experience with design of custom circuit boards
* Competent debugging and programming Rockwell PLCs
* Proficient user of multiple technologies and operating systems, experience with both Windows and Linux, adept at modifying computers and electronic systems

EDUCATION

*B.Sc. Computer Science – Honors*  09/2020 – Present

University of Windsor

* Courses include: Linear Algebra, C Programming, Differential Calculus,

Assembly, Python, Object Oriented Programming

* Expected graduation: May 2024

*Electronics Engineering Technology – Industrial Automation* 09/2017 – 04/2020

St. Clair College, Windsor, ON

* Received the Student Leadership Award for graduating class year
* Courses include: DC and AC circuit analysis, digital systems, electronics, C language and PLC programming, microprocessor, and microcontroller programming
* Graduated April 2020
* Cumulative G.P.A: 3.921/4.0

*Ontario Secondary School Diploma* 09/2013 – 06/2017

Essex District High School, Essex, ON

* Seven 12U level courses, including: Mathematics, Physics, Chemistry, Computer Engineering, Computer Science and English

COMPUTER SKILLS

* Competent programming both Rockwell and Siemens PLCs
* Excellent programming ability; C/C++/C#, JAVA, Rockwell ladder logic (SLC 500, RS Logix 500), BASIC, Turing
* Intel 8085 assembly language programming
* Arduino projects done in AtmelStudio, a professional development environment using Visual Micro

WORK EXPERIENCE

*Controls Engineering Technician* 05/2019 – 09/2020

Centerline Windsor Ltd

Tim Vincent

* Setup and final debug of industry standard production machines
* Programming of Rockwell GuardLogix PLCs, FANUC robots, and various other misc. industry devices, such as scribers, torque units, and cameras
* Machines worked on range in size from 12 cells at 6 PLCs, all the way down to small FlexFast machines

*Tutor* 11/2019 – 04/2020

St. Clair College, Main Campus

Marko Jovanovic mjovanovic@stclaircollege.ca

* Tutors are responsible for managing their own clients and hours
* Subjects tutored included programming in C, C#, Siemens/Rockwell PLCs, as well as Physics, Chemistry, Calculus (Differential/Integral), General math, and Circuit analysis

*AudioVisual/IT Support* 05/2018 – 04/2020

St. Clair College, Main Campus

Dusan Vucak (519) 564-3642

* Maintenance and troubleshooting of classroom AV setups (PCs, AV switches and amplifiers, projectors)
* Support for college events requiring audio/video and computer equipment

*Tool & Die Extra Hand* 07/2017 – 09/2017

Manor Tool & Die, Oldcastle, ON

Paul Maheux/Rick Lansou

* Delivery/pickup of tool and die sections and parts for shipping from various locations
* Operating a metal forming press
* Painting/cleaning dies
* Occasional machining of tool and die sections

HOBBIES/INTERESTS

* Arduino C programming is one of many hobbies, and programming Micros is something I hope to make into a career
* Playing with a variety of microcontrollers at home including Arduino-based projects using AtmelStudio, most notable project was my final project for Electronics Engineering: an E-bike programmed in C, over 1100 lines of code; the project consisted of 5 panels mounted to the frame, and 4 custom PCB boards for processing analog signals
* Building/programming model aircraft and drones
* Building and modifying computers and computer systems
* Building custom Electric Longboards; I put together the battery packs and program and wire the boards

REFERENCES

Mr. George Peters

Coordinator

Electronics Engineering Technology – Industrial Automation program

St. Clair College of Applied Arts and Technology

2000 Talbot Road West

Windsor, ON

N9A 6S4

(519) 972-2727 ext. 4447

Mr. Scott Pittl

Senior Manager, Controls Engineering, Integration, Documentation

Centerline Windsor Ltd

415 Morton Dr

Windsor, ON

N9J 3T8

Mr. Tim Vincent

Controls Engineering Technician Leader

Centerline Windsor Ltd

415 Morton Dr

Windsor, ON

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Mr. Marko Jovanovic

Tutoring Dept.

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Mr. Dusan Vucak

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