



Joshua Green

Contact Details

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Contact Details

- ♦ Object-Oriented Programming
 - ♦ C++, Python
- ♦ Machine Learning
 - ♦ Keras, TensorFlow, Pandas, Matplotlib, Numpy
- ♦ General Programming
 - ♦ C, Assembly, Arduino
- ♦ Markup/Styling
 - ♦ Latex, HTML, CSS, XML
- ♦ Source Control
 - ♦ GIT
- ♦ Scripting
 - ♦ Linux, Bash
- ♦ Allen Bradley PLC
 - ♦ FactoryTalk, DNET, RSLogix, RSLinx
- ♦ 3D Modelling
 - ♦ AutoCAD, SOLIDWORKS, Fusion360, FreeCAD
- ♦ Manufacturing
 - ♦ Machining, Lathe, Plasma cutting
- ♦ Welding
 - ♦ MIG, Stick, Oxy-Acetylene
- ♦ PCB Design
 - ♦ Microcap, EAGLE, Soldering
- ♦ Other skills
 - ♦ QuartusII, Unreal Engine

Experience



Graduate Research and Teaching Assistant at Western University  May 2019 - May 2020
 London, Ontario



- ♦ Drive pioneering research in wireless network security and engineer novel methods for authentication and trust assessments
- ♦ Lead classes and labs, monitor student examinations, and mark assessments for the following courses:
 - ♦ [ECE4416/4415 \(ECE Design Project Course\)](#):
 - ♦ Guide students through their final engineering project and give constructive feedback throughout the documenting process
 - ♦ [ECE3331B \(Introduction to signal processing\)](#):
 - ♦ MATLAB and Simulink
 - ♦ [ECE4436A \(Networking: Principles, Protocols, and Architectures\)](#):
 - ♦ Linux, Socket programming, Virtual machines, Python
 - ♦ [ECE2236B \(Magnetic circuits and transmission lines\)](#):
 - ♦ Electromagnetic theory

Controls Engineering Intern at General Motors  May 2019 - May 2020
 Ingersoll, Ontario

- ♦ Allen Bradley PLC programming, modify and document AutoCAD electrical drawings, large scale cross-functional teamwork, quality defect isolation, project management, follow Ontario electrical safety code, update safety related databases (i.e., lockout zones/tags, safety zones, PLC programmes, device net)

Education

Ph.D electrical engineering  Sept 2021 - Aug 2026
♦ *Wireless Communication Systems and Data Networking*
 The University of Western Ontario

B.E.Sc electrical engineering  Sept 2016 - April 2021
♦ *Wireless Communication Systems*
 The University of Western Ontario

Projects

- ♦ [Lung disease classification using CNNs and transfer learning](#)
- ♦ Capstone: Smart cane elderly alert system
 - ♦ Role: GPS polling, data formatting, SMS message formatting, SMS system operation
- ♦ Welder power supply with PID controller
- ♦ Student card enabled security door access system

Publications and Awards

- ♦ [IEEE PIMRC Conference Paper Publication](#):
 - ♦ ["Shared Experiential History for Encryption Based Peer-To-Peer Authentication"](#)
- ♦ [2023 Graduate symposium outstanding presentation award in communication system engineering](#)
- ♦ [Dean's List Honoree 2017-2018](#)