

# Artur Danilenko

• (778)-885-6361 • <https://arturdanilenko.github.io/> • Email: [aserdanilenko@gmail.com](mailto:aserdanilenko@gmail.com)

## Technical Skills:

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### Languages Software

• C/C++ • Java • Python • ARM7/8051 Assembly • Verilog • JavaScript  
• Eclipse • Git • Visual Studio • ModelSim • Quartus • AutoCAD • IdleX • Circuit Maker

## Projects:

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### Coin Picking Robot

March 2019

- Team project with a task of building a robot that searches for and collects coins in a closed area
- Configured a microcontroller to read and induced current and identify coin location
- Designed interrupt service routine for robot's arm control
- Thoroughly optimized code resulting in quicker interrupt cycle time

### Reflow Oven Controller

February 2019

- Worked in a team to build a reflow oven using a thermocouple wire and 8052 soft processor
- Programmed finite state machine which was responsible for the microcontroller's output
- Designed user interface using LCD
- Implemented power, timing and setting adjustment modules

### Alarm Clock

January 2019

- Individual project that is composed of basic electric/electronic elements and a microcontroller
- Used an interrupt service routine to run real time and compare to the chosen alarm settings
- Added a second adjustable timer that would function during the weekend

### Line Following Robot

April 2018

- Team project involving PIC32MX795F512I microcontroller and light sensors
- Tested reflection difference of distinct shades of grey to optimize robot's decision making
- Programmed reactions to the identified line

## Work Experience:

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### Walmart Inc. Port Coquitlam, BC:

#### Fulfillment Department Manager

June 2018 – October 2018

- Improving team's efficiency by careful planning and scheduling for the week
- Hosting team meetings, discussions and trainings
- Completing office tasks such as merchandise tracking and finalizing

#### Fulfillment Associate

January 2018 – May 2018

- Receiving and unloading trailers
- Organizing merchandise in the warehouse and the salesfloor
- Operating powered equipment to assist with the backroom maintenance

## Education:

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### University of British Columbia

Expected Graduation: May 2022

#### Bachelor of Applied Science – Electrical Engineering

- Relevant courses: Data Structures and Algorithms, Operating Systems, Engineering Design Studio, Introduction to Microcomputers, Computer Communications

