

# Aaron Arnason

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## Technical Competency

**Embedded Programming:** Engineered bare-metal C firmware on NXP S12X and STM32G0 microcontrollers, including interrupt handling and SPI/I2C communication protocols.

**Software Development:** Built front-end interfaces using HTML, CSS, and vanilla JavaScript. Engineered back-end services with PHP, C#, and Python. Programmed web services that leveraged full CRUD capabilities using MSSQL database integration. Coded several console and desktop applications.

**Circuit Design and Analysis:** Designed and analyzed circuits from passive components to signal conditioning circuits to interface sensors to microcontrollers. Designed PCBs in KiCad.

## Education

**Diploma in Computer Engineering Technology** (Expected Graduation: December 2025)

Northern Alberta Institute of Technology, Edmonton, Alberta

Awarded the **Louise McKinney** scholarship for academic achievement, 2024

**Bachelor of Science in Computer Engineering**

University of Alberta, Edmonton, Alberta

Graduated: 2018

## Ongoing Training

**Information Security Conferences:** Attended **DEFCON** (multiple workshops) and **BSIDES** events to expand my knowledge around the intersection of technology and security. Gained valuable insight needed to springboard into a career focused on securing the digital and physical world.

**Income Data Auction Parser via Automated Python Script:** Scraped auction data using GET requests yielding HTML documents that could be processed via CSS selectors to target bid price for each item. Organized and calculated current bid price by looping over selected tags and adding to a total sum. The script replaced manual calculation cutting time from hours to seconds.

**Basic First Aid & CPR/AED**, Canadian Red Cross – Certified December 2024

## Work History

**Taping and Drywall Specialist | Lead Hand & Independent Contractor**

Various Employers / Self-Employed | 2007 – Present

Experienced in residential, commercial, and high-rise projects, with a focus on renovations and new buildings. Collaborated with project managers to aid in the estimation of execution, scheduling, material planning, and quality control. Promoted into roles requiring strong client communication, leadership, and technical acumen – both independently and in team environments.