CHARLIE HORN

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EDUCATION

Queen's University, Kingston, ON **2013 – 2018**
Bachelor of Science in Engineering

- Academics:
  - Specialization in Applied Mathematics, Systems and Robotics with a Professional Internship
  - 3.45 cumulative GPA

- Fluent in English and French

WORK EXPERIENCE

Munvo Solutions, Toronto, ON **July 2018 – Present**
Software Consultant

- Consulting Services
  - Install and configure the Adobe Campaign application in client environments
  - Integrate with existing systems and databases to leverage customer data in marketing campaigns
  - Produce effective solutions to meet business requirements

- Technical skills:
  - Install application and database in Linux environment
  - Execute complex queries and segmentation using AC interface
  - Enable integration across solutions using SOAP and REST APIs
  - Deliver personalized marketing with Javascript and HTML
  - Configure database schemas using XML

RockMass Technologies, Kingston, ON **May 2017 – August 2017**
Software Developer

- Product Development
  - Tuned algorithm to improve accuracy by %15.6
  - Configured wireless networks to allow remote access to processing servers

- Technical skills:
  - Developed core algorithm, written in C++, Python, and Julia
  - Developed user interface using HTML and JavaScript

Advanced Micro Devices, Markham, ON **May 2016 – April 2017**
CAD Team PEY

- Product Development:
  - Identified and debugged failures in CAD projects to provide design teams with an optimized software design flow
  - Implemented feature to automatically generate reports on internal wiki page

- Technical skills:
  - Developed Perl scripts to generate excel sheets which displayed quantified improvements
  - Implemented new Python scripts to adopt new projects more efficiently to the CAD process

PROJECTS

Automated Drill Core Analysis **December 2017 - April 2018**
- Automated the extraction of essential geological data from boxes of drill core
- Develop an algorithm to identify and measure fault lines, and disregard mechanical breaks

Control of an Unknown System as it Relates to Smart Thermostats **April 2016**
- Developed a control system given an unknown black box
- Applied filters in both frequency and time domain to reduce signal noise
- Created a formal engineering report on the technical process and implications on the triple bottom line