

Experience

AnalogX - Rambus | Analog Mixed-Signal IC Design Engineer

Toronto, Ontario | May 2021 – present

- Design SERDES integrated circuit using Verilog – completing 100% of RTL hardware meeting tape out deadline
- Lead digital PMA integration and verification efforts reaching **99%** code coverage within cost and schedule constraints
- Manage integration of IP across digital, analog and verification teams within **\$16M** annual revenue business unit
- Develop detailed chip level design and layout workflow prioritizing power and latency optimization with 64Gbps transmission and receiving capability
- Introduced hardware optimization feature lowering bit error rate from **10⁻⁶** to **10⁻¹⁵** bit using FEC encoding

Rocscience Inc | Software Developer

Toronto, Ontario | May – August 2020

- Implemented UX/UI features using C# and .NET for product updates to over **450** Universities in **120+** countries
- Refactor library of over 200 files using Visual Studio and git leading to reduced model processing runtime by **30%**
- Drove leading project development for (EX3, RS3, Slide3) by creating a 7-feature annotation toolset with an emphasis on usability and efficiency.
- Implemented an automated visualization tool aggregating up to 100 hours of simulation data into a simplified table

Haver and Boecker | Electromechanical Technician

North-Rhine-Westphalia, Germany | May – August 2019

- Redesign CAM programming tools to increase the production efficiency achieving **25%** increase in part throughput
- Assemble over 30 pneumatic systems for large industrial machinery within +/-1µm tolerance professional EN standards
- Expand 20000 ft² warehouse storage capabilities by prototyping a stainless-steel storage unit using CNC machining, high precision welding and sheet metal bending techniques

Hatch Ltd | Geotechnical Projects Intern

Niagara Falls, Ontario | Aug – Sep 2017

- Streamlined internal project management and portfolios used by 8000 employees on Microsoft Sharepoint intranet
- Collaborate globally on revitalizing marketing and promotion materials producing 60+ updated project descriptions in-line with, client engagement, marketability
- Digitized 3 months of geotechnical blueprints with AutoCAD pre-emptively saving **50 hrs** for each use in future projects

Leadership

You're Next Career Network | Operations & Logistics Associate

Toronto, Ontario | April 2021 – present

- Facilitated planning and execution of bi-annual career fair events for **2500+** students and **80+** companies
- Manage 20 key industry partnerships delivering logistical resources and support ensuring positive experience
- Lead career workshops yielding hundreds of student-company interactions per event for Twitter, Google and Facebook

Education

University of Toronto

Bachelor of Applied Science in Engineering Science, Robotics Engineering | Graduation: 2023 |

- Culminative GPA: 3.68 | Deans Honour roll | President's Scholar of Excellence
- Engineering Business Minor
- Clubs: YNCN, Engineering Sports Association, IEEE Toronto Branch

Personal

Technical Skills: C#, C++, python, **MATLAB**, **AutoCAD**, **Verilog**, ARM Assembly, **HTML/CSS**, JavaScript

Interests: Rowing — CSSRA Rowing Championships | Basketball — Southern Ontario SS Champions | cooking and eating new foods | English, French, Chinese + learning Spanish on Duolingo