

# Roman Huts

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## Experience

### Senior Software Engineer

AMD

2020 - 2024

- Lead and completed **AV1 integration** into [OBS](#) for AMD's AV1 encoder.
- Implemented **hardware accelerated** features (**OpenCL / DX11 / DX12 / Vulkan / C++**) for Pre-Analysis and Pre-Processing components of the Advanced Media Framework (AMF) SDK, shipped with **every AMD GPU driver**. [GPUOpen/AMF SDK \(GitHub\)](#)
- Responsible for AMF SDK releases as well as resolving and responding to **external developer issues (C++)**.
- Interviewed over 30 candidates and screened 100s of resumes for Co-op positions.
- Speaker at 'Former Co-op' eSpeakers Panel & Q&A for new Co-op orientation week in front of **over 170 new students**. Mentored and helped assign tasks to multiple students.
- Promoted from Software Development Engineer 2 (2022).

### Software Developer Intern

AMD

2018 - 2019

- Fixed over 20 bugs for AMF and LiquidVR SDKs (LVR) such as eGPU support (**C++**).
- Implemented game engine integrations (**C++**) such as **FreeSync2 HDR** into **Unreal Engine 4**.
- Responsible for Jenkins **CI/CD automation server (Python / Bash / Groovy)**.

### IT HelpDesk Intern

IMAX

2017 - 2018

- Developed tool using PowerShell and XAML to **automate** Active Directory setup for new hires.

### Teaching Assistant

University of Toronto

2017

- Invigilated and marked midterm examinations, held reoccurring tutorial sessions for groups of 30 students.

## Awards

- CG Recognition award for shipping **AV1** with **OBS** (AMD 2022)
- Spotlight award for role in **version control system migration** (AMD 2021)
- Recognition award for **outstanding co-op mentorship** (AMD 2021)
- Nominated for Innovation Showcase for Shader Optimization Benchmark Tool (AMD 2021)

## Business Projects

### NDIO Customs E-bikes and Lithium Batteries

- Founder and owner, design and development of custom e-bikes and lithium battery packs.
- **1<sup>st</sup> place winner** for Special Construction class custom build at the [North American International Motorcycle Supershow](#) (2023).

### Licensing Lead Generation for Live and General Music Use ([DCSIL Program](#))

- Lead team development of cross platform app for generating non-confrontational leads.
- Pitched to **multiple leaders** in the **music licensing** industry space such as BMAT USA and Dataclef (subsidiary of SOCAN). ([MVP Tech Demo](#))

### Phone Provisioning Automation Tool

- Developed phone provisioning tool for IMAX, in collaboration with **Masergy's REST API** based user provisioning API beta program which is in use at the Los Angeles and Mississauga offices.

## Education

### Honors Bachelor of Science with Distinction, Computer Science Specialist

University of Toronto • Toronto, ON • 2015 - 2020 • **\*\*\***/4.0

## Skills

**Languages:** C++, Python, C, Solidity, Bash, JavaScript, SQL, HTML, CSS, Groovy

**Computer Graphics:** OpenCL, DirectX11, Vulkan, DirectX12

**Tools:** Visual Studio 2022, VS Code, Git, Perforce, JIRA, Confluence, GDB, GPUView, Valgrind, Radeon GPU Analyzer, Elecard StreamEye Stream Analyzer

**Operating Systems:** Linux, Windows