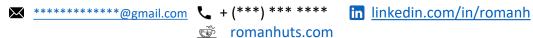
# **Roman Huts**



## Experience

# Senior Software Engineer AMD

2020 - 2024

- Lead and completed **AV1 integration** into <u>OBS</u> 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 <u>North American</u> <u>International Motorcycle Supershow</u> (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