Sava Nozin

SavaNozin.com · (613) 324-0512 · Sava41@gmail.com

Professional Experience

Engineer at Brash Product Development   2019 — Present

- Led mechanical development of novel neck bracing exoskeleton (Patent No. WO2021016713). Synthesized, designed, and fabricated the linkage assembly. Performed experiments to validate prototypes. Collaborated with the industrial design team on ergonomics and usability.

- Participated in IoT embedded systems development based around Nordic SoCs. Reduced power consumption on BLE and NFC enabled devices resulting in a doubling of battery life.

- Led graphics development for an ARM based digital art display. Developed a 4k capable media player which included a custom UI renderer using OpenGL and FFmpeg libraries.

AR / 3D Art Freelancing   2020 — Present

- Built experimental AR experiences for Snap Inc that were used millions of times on their platform.

- Created art assets, custom shaders, and programmed game logic. Projects were done using Lens Studio, Snaps' proprietary real-time graphics engine.

Mechanical Designer at Ciena (Co-op)   May — Aug 2018

- Designed sheet metal / machined / tooled parts employing DFM and GD&T principles for next generation optical networking hardware. Consulted with thermal, RF, and ECAD engineers for design input.

- Reduced manufacturing costs up to 20% by revising part manufacturing techniques. Released engineering change orders and managed revisions using PLM tools (Agile, Windchill).

Technical Expertise

Engineering

- Beginner in designing digital circuits.

- Proficient using Creo and SolidWorks for parametric modeling.

- Proficient in programming with C, C++, Python. Experienced working with Linux and embedded systems.

3D

- Proficient 3d modeling with 3ds Max and Blender. Beginner with Maya and Zbrush. Experienced with texturing using Substance Painter and Photoshop.

- Experienced with technical aspects of 3d graphics like writing shaders, working with transformation matrices, quaternions, and optimizing assets for real-time.

Communication

- Languages: English (fluent), French (beginner), Russian (beginner).

Education

B.A.Sc. Mechanical Engineering at the University of Ottawa   2014 — 2019