

## **Moses “Moshi” Turner**

601 W. 11th St., Apt 225, Austin, TX

+1 (512) 987-1025

[mosesturner@protonmail.com](mailto:mosesturner@protonmail.com)

<https://moshimeow.github.io>

## **Industry Experience**

### **Associate Software Engineer**

**May 2021-**

Collabora

- Wrote Monado’s optical hand tracking, learning computer vision fundamentals, machine learning, artificial dataset generation, real dataset collection, statistics and C++ from scratch over a very short timespan.
- Helped write Monado’s SLAM infrastructure.
- Wrote and improved many hardware drivers.
- Contributed to OpenComposite, libsurvive, StereoKit and many other FOSS projects along the way.
- Mentored a Google Summer of Code student.
- Wrote blog posts and Twitter posts promoting Monado and Monado’s hand tracking.
- Regarded as “the demo god” (their words not mine) for constantly producing live and recorded demos that showed off various pieces of Monado, including our SLAM and hand tracking.

### **FOSS Hacker**

**March 2020-May 2021**

Project North Star

- Wrote most of Monado’s North Star driver, on top of some minimal initial work from Nova King.
- Wrote Monado’s “ultraleap\_v2” driver from scratch.
- Helped get StereoKit working on Linux.
- Built many hardware prototypes, iterating on a custom Project North Star headset about 40 times.
- Wrote several display calibration methods for the North Star headset’s displays.
- Did some initial work building+evaluating various open-source SLAM implementations.

## **Education**

### **AAS in Mathematics**

**May 2018-Dec 2021**

Austin Community College

- 3.7 GPA
- Started at age 15, graduated at age 17.

## **Skills/Values**

- High skill in C/C++ and Python. Intermediate in Rust, C# and web development, and I can pattern-match most other programming languages.
- Strong background in calculus, linear algebra, statistics, machine learning, data science, and low-latency machine vision.
- Pretty good at searching for, reading and understanding ML and pose estimation papers.
- Once fluent in German; could get this back very easily. Basics in Hindi, French, Spanish, Portuguese. Trying to get fluent in Mandarin as fast as I can!

- Extremely hard working, extremely quick learning.
- Systems thinker; obsessed with going up and down levels of abstraction.
- About a decade (since I was 9!) of experience using Blender and its Python API for 3D art, and about a year of using it for data generation.
- Coming up on a decade of Linux experience. The first time I installed Linux was when I was 11, and the first time I built the Linux kernel myself was when I was maybe 12-13.
- I care about results! I want to ship products that help make peoples' lives better. Nothing's above or below me in achieving that end.

## Conference Presentations

"Introducing Monado's Hand Tracking," FOSS XR, speaker and organizer. Minneapolis, MN., October 2022.

## References

**Mateo De Mayo**, Associate Software Engineer  
Collabora  
[mateo.demayo@collabora.com](mailto:mateo.demayo@collabora.com)

**"JC" Corvinus\***, Senior Designer  
ex-Holos, VRChat  
[dude.dudeness@gmail.com](mailto:dude.dudeness@gmail.com)

**Jakob Bornecrantz**, Senior Software Engineer  
ex-VMWare, Collabora  
[jakob@collabora.com](mailto:jakob@collabora.com)

**Ryan Pavlik**, Principal Software Engineer  
ex-Sensics, Collabora  
[ryan@collabora.com](mailto:ryan@collabora.com)

**Daniel Willmott**, Software Engineer  
Monado GSOC '22, LucidVR, Valve Corporation  
[web@dan-w.com](mailto:web@dan-w.com)

**Nick Klingensmith\***, FOSS Hacker  
ex-Microsoft/etc, StereoKit  
[Nick.Klingensmith@outlook.com](mailto:Nick.Klingensmith@outlook.com)

**Malek Hodroj\***, Software Engineering Intern  
Microsoft  
[malekh@stanford.edu](mailto:malekh@stanford.edu)

**Nova King\***, FOSS Hacker  
ex-Holos, Stardust  
[technobaboo@gmail.com](mailto:technobaboo@gmail.com)

**Michael Istvan**, Professor of Philosophy  
Austin Community College  
[michael.istvan@gmail.com](mailto:michael.istvan@gmail.com)

**Frederic Plourde**, Business Strategy Lead  
Collabora  
[frederic.plourde@collabora.com](mailto:frederic.plourde@collabora.com)

\* I have only worked informally on FOSS projects with this person.