

Anthony Calandra

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Experience

Freelancing and Contract Work

August 2022 – current

Tesla

Autopilot Software Engineer, May 2022 – July 2022

- Worked on core libraries that helped guide vision and AI stacks.

DV Trading

Algorithmic Trading Engineer, Aug. 2020 – May 2022

- Develop proprietary trading software and algorithmic strategies in C++ and C#.
- Projects include: risk management; market replay simulation; FPGA strategies; participated in building a strategy development library for external traders.

Clearpath Robotics (OTTO Motors division)

Platform OS Engineer, Sept. 2019 – Aug. 2020

- Adding functionality to autonomous robots: C++ drivers for polling battery states, magnetic line sensors; safety features; diagnostic aggregation.
- Triaged robot errors or unexpected behaviours by inspecting robot diagnostics.

Fitbit

Embedded Software Engineer Intern, May – Aug. 2018

- Worked with the Fitbit SDK team to deliver new JavaScript APIs for developers.
- Contributed to the IoT JavaScript engine in C (see “JerryScript” in Projects).


Education

Bachelor of Computer Science (co-op), University of Waterloo, Class of 2019

Notable Projects

Modern C++ Reference Sheet  github.com/AnthonyCalandra/modern-cpp-features

- A cheat sheet of modern C++ 11/14/17 features with short descriptions and code examples. One of GitHub’s top starred repositories in 2016 and 2017.

netfork  github.com/AnthonyCalandra/netfork

- Fork a Windows process over the Internet.

static-containers C++ Library *coming soon...*

- C++ containers library that is constexpr-friendly, exception-less, and doesn't heap allocate; suitable for low-latency or real-time applications.

Javascript IoT Engine Development  github.com/AnthonyCalandra/jerryscript

- JerryScript, a former Samsung project, is a JS engine designed for IoT devices.
- Submitted engine patches for adding standard library / language features.

Classic Pong Game on the GameBoy Advance  github.com/AnthonyCalandra/gba-pong

Java	JavaScript	C++	C	SQL	CMake	PHP
Racket	React	Windows	Redux	Linux	Boost	Google Test
