

Colten Judice

Software Engineer

<https://github.com/gitcolt>

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EXPERIENCE

NI (National Instruments)

Aug 2022 – Dec 2023

- Integrated an [electric vehicle battery testing software suite](#) with other NI products, namely SystemLink, VeriStand and TestStand
- Developed, orchestrated and executed a load testing procedure for simulating 100 battery tests running simultaneously, and monitoring the performance thereof (AWS services, Terraform, Python/bash scripts/batch files, Playwright, Kubernetes/OpenLens/Rancher, SystemLink)

American Airlines (contract)

Nov 2021 – Aug 2022

- Ported an aircraft maintenance scheduling application from Delphi to .NET

Ayoka Systems

Aug 2020 – Nov 2021

- Build custom enterprise applications (.NET, Google AWS, Vue, embedded Linux, Yocto, Mender)
- Acted as the primary liason between the company and project stakeholders
- Contributed to several projects simultaneously
- Made critical design decisions according to clients' needs
- Mentored and delegated tasks to junior developers

EDUCATION

The University of Texas at Austin

Aug 2020

Bachelor of Science and Arts

Computer Science

PROJECTS

3D Doom-like level editor



An old software-rendered prototype heavily based on [Fabian Sanglard's blog articles](#) detailing the workings of Duke Nukem 3D's Build Engine:

<https://js-software-renderer-lime.vercel.app>

WebGL version – current build:

<https://doom-like.vercel.app/>

RGB keyboard text rendering

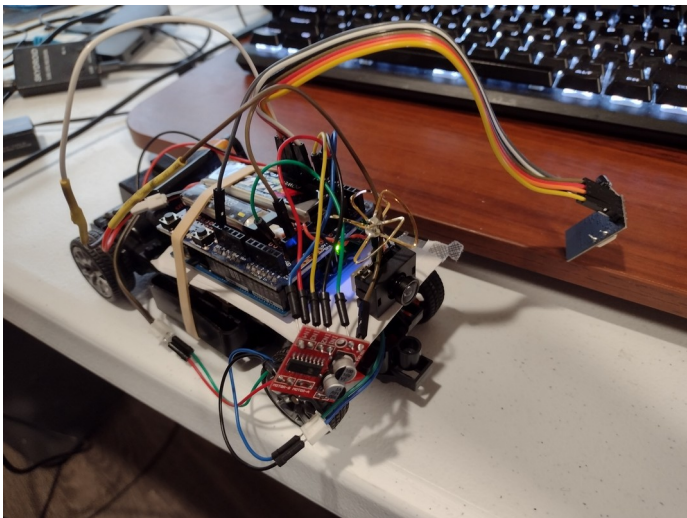


A small experiment in rendering text on an RGB keyboard where the keys are “pixels” – written in C using libusb

video link:

https://odysee.com/@.:0f/keyboard_text_renderer:b

Remotely controlled WebRTC video car



A car that can be controlled over the internet with a low-latency WebRTC video feed. There is a server that negotiates the WebRTC handshake and a \$5 RC car with the guts replaced with an Arduino Nano, a 2.4GHz radio tranceiver for controlling steering and acceleration, and a wireless FPV camera:

<https://github.com/gitcolt/webrtc-car>