

# Cyril “Nick” Engmann

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## EDUCATION

**The University of Texas at Austin** - Bachelor of Science, Electrical Engineering

May 2016

Track: Integrated Circuits & Embedded Systems

Minor: Government

**The University of Texas System** – Bill Archer Fellow

Spring 2016

Competitively selected for a semester-long Washington, D.C., internship and academic fellowship program

**Universidad de Cantabria** – Study Abroad (Spain)

Summer 2014

## PROFESSIONAL EXPERIENCE

**Circadence** – Remote Systems Architecture Engineer (R&D)

September 2018 – Present

- Utilized CAD software to design multiple enclosures for custom hardware solutions.
- Responsible for architecting, implementing, and testing multiple software and firmware solutions for custom hardware.
- Designed multiple custom PCB solutions utilizing both the ESP32 and ATtiny85 chipset.
- Utilized Software Defined Radio to spawn a custom 4G LTE Base station. Created an operation GUI for users to forward traffic, tracklogs, and maintain Command + Control channels.
- Maintains two high-quality 3D printers for both rapid design and production.

**Hackster** – Contributing Freelance Writer

July 2019 – February 2020

- Researched and covered different technologies that interest the readership.
- Curated 13 different articles, with concepts ranging from green energy technologies to hardware cybersecurity solutions.

**Space and Naval Warfare Systems Command (SPAWAR)** – Engineer

July 2017 – September 2018

- Architected a solution to upgrade the communications platform to support the JAUS protocol on the TALON Explosive Ordnance Disposal Robot, using external embedded devices.
- Wrote a radio command API with 12 different function calls that interface with an embedded modular radio.
- Developed a React/Django application to calculate ROI on Cybersecurity tools for specific environments.

**Quod Certamine** – Founder

June 2016 – June 2017

Founded a small business to provide technical solutions for startups and small businesses. Primary client being:

**CURB** – Software/Hardware Engineer:

- Developed testing programs to manage software provisioning for their manufacturing facility in Dallas Texas that produces over 1,000 units a month
- Engineered a testing environment to produce accurate calibration values for high precision current transformers
- Developed an Amazon Alexa application utilizing their technology to enable verbal interaction

## PROJECTS

**Flashcards for Developers** – Co-Founder

<https://flashcardsfordevelopers.com>

- Developed a website to help individuals with technical interview prep using flashcards.
- Managed a team of contractors to curate educational content on the website
- Participated in YCombinator Startup School while iterating on both the design and the content of the application.

**In-Plants** – Hardware/C++

<http://bit.ly/in-plants>

- A mesh-networked soil monitoring system for houseplants. Uses Particle Gen 3 boards, installed in a custom enclosure.

**PiDSLM – Raspberry Pi DSLM** – Hardware/Python

<https://bit.ly/raspi-dslm>

- Designed a 3D printed enclosure and a software suite to utilize the new Raspberry Pi HQ 12.3MP Camera

## CIVIC ENGAGEMENT (LEADERSHIP)

**Major League Hacking** – Coach

November 2015 – September 2019

- Help student hackathon organizers from across the country run their hackathons while representing Major League Hacking, the official student hackathon league
- Help students debug code and learn how to operate new hardware/software packages

## PROFESSIONAL SKILLS

Programming Languages (in order of familiarity): Python, JavaScript, C/C++, Bash, Java, HTML/CSS, MATLAB, PHP, VBA

Computer: Linux, Solidworks, Fusion 360, React, Angular, Git, Visual Studio, cmake, bitbake, Keil, Microsoft Suite, Android Studio