CORY NESS

✉ **E-mail:** coryness@tytan.rocks   🔗 **Website**   🐙 **GitHub**

EXPERIENCE

Co-Op Intern with Cross The Road Electronics
Software Engineer

📅 Jun 2017 – Present   📍 Macomb, MI, USA

- API development in Java, C#, C++, and LabVIEW
- Firmware development in embedded C on dsPIC and STM32 microcontrollers
- Thorough testing of new API/firmware features on hardware
- Custom ESP8266 firmware and MicroFramework C# flashing application that communicates with 8266 bootloader
- Company GitHub Repository available **here**. GitHub account used specifically for work-related matters **here**.

Personal Projects

📅 Ongoing   📍 Home

- Ubuntu 18.04 Home Servers used as backup network drive & other projects
- Portainer Service used to deploy arbitrary Docker containers
- Jenkins Docker container to implement Continuous Integration in GitHub Repos
- Tools installed on a Kali Linux machine for Penetration Testing & Capture The Flag challenges
- PCB Design for an arcade cabinet to RetroPie conversion board, includes audio amplifier for built in speakers
- Various Projects for dsPIC including I2C, SPI, RFID, LCD

VOLUNTEER EXPERIENCE AND LEADERSHIP

FRC High School Robotics Competition

📅 2013 – Present   📍 Southeast MI

2013-2017	High school student member of 33 Killer Bees
2017-Present	Control System Advisor for FRC Competitions
2018	Software Mentor for 33 Killer Bees
2019	Helped bring FRC to De-La-Salle Collegiate HS
2019-Present	Co-Lead Mentor for 7762 Autopilots

Phi Delta Theta Member

📅 Ongoing   📍 Kettering University

2018-2019	Awards Secretary
2019-2020	Technology Secretary, Warden
2017-Present	Ongoing Service Events

RESEARCH EXPERIENCE

Student Research Assistant

📅 2019   📍 Kettering University

- Assistant to **Dr. Yunsheng Wang**.
- Studied Cohda MK5 OBU's and intercommunication security
- Researched into machine-learning neural nets for image classification using TensorFlow

EDUCATION

Bachelors of Science in Computer Science, Minor in Computer Engineering, Concentration in Cybersecurity

Kettering University

📅 Oct 2017 – Mar 2021   📍 Flint, MI, USA

Relevant Courses
- Operating Systems (CS 451)
- Cloud Computing (CS 351)
- Cryptography (CS 415)
- Wireless and Mobile Security (CS 457)
- Computer and Network Security (CS 455)
- Microcomputers (CE 320)
- Circuits (EE 210)
- Differential Equations (MATH 204)

PROGRAMMING SKILLS

C#	●●●●○
C	●●●●○
C++	●●●●○
Java	●●●○○
LabVIEW	●●●○○
Git	●●●○○
Python	●●○○○
LaTeX	●●○○○

TECHNICAL SKILLS

Eclipse   Visual Studio   VSCode   MPLabX   CodeWarrior   Eagle   Inventor   Onshape   Unity   Docker   Jenkins   GIMP   Microsoft Office   Google Drive   PIC   STM   CAN   Ubuntu   Kali   Windows

SOFTSKILLS

Learning Potential   Team Work   Responsible   Hard-Working   MultiTasking   Work Under Pressure

REFERENCES

Available on Request