

# TR CORY NESS

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## 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 (DLS) Collegiate HS
- 2019-Present Co-Lead Mentor for 7762 Autopilots (DLS)

### 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

Currently holding a 3.78 GPA as a Senior I.

#### 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

## SIGNATURE