

2721 Hannah Blvd
Apt. 7335
East Lansing, MI 48823

Chad M. Krause
chad@chadkrause.com
(248) 773-9286

1644 Rivera Ct.
Boulder City, NV 89005

SUMMARY: Computer Science student with years of experience with all types of languages, including PHP, JavaScript, C++, Java, C#/.NET, and SQL. Well-rounded individual with some experience in Controls and Automation, Electrical, and Mechanical work as well. Not just a computer science engineer

EDUCATION: Michigan State University
Computer Science, May 2019
3.16, 3.4 GPA
Dean's List, Spring 2018

EXPERIENCE: **KUBICA CORP.**, Novi, MI
Controls Engineer Intern, May 2018 – August 2018

- Developed programs for factories using Allen-Bradley Controllogix PLCs
- Deployed programs during production in factories

KUBICA CORP., Novi, MI
Software Engineer Intern, May 2017 – August 2017

- Developed in the .NET stack, working directly with customers on mission-critical projects
- Developed web apps in Angular, adjusting on the fly during deployment based on customer needs
- Used the SCRUM methodology to develop programs efficiently and manage time

PRECISION KARTING TECHNOLOGIES, Wixom, MI
Website Developer, CNC Machinist, Shop hand, October 2013 – Present

- Experience developing websites using HTML, JavaScript, and CSS.
- Programmed and ran CNC Lathes and Mills using GibbsCAM and Fusion 360
- Worked with heavy machinery and hand tools

VOLUNTEER: **ERROR 404/WAVERLY FIRST ROBOTICS TEAM**, Lansing, MI
Founder and Lead Mentor, October 2017 – Present

- Started a world-class high school robotics team
- Secured funding, materials, and other resources to successfully compete in the 2018 FIRST Robotics Competition season
- Mentored high school students, focusing on proper technique and safety
- Invited and competed in the World Championship since we were the best rookie team in Michigan

PROJECTS: **ONGOING**

- **Robotics Team Management Software** – A project started with Error 404/Waverly robotics. A system to keep track of students, complete with time log, skills management, allergies, and injury reports. Custom PHP framework backend with Angular front end.

PAST

- **MSU Capstone: Aptiv Vehicle Scheduler** – Group project to create a scheduling web app for Aptiv's autonomous vehicles, using Angular and C#. We are using SCRUM methodology to develop. Developing in collaboration with Aptiv's AMDAS team.
- **Drivable "Dozer" Robot** – A small robot designed and built by me. Made of CNC'd and welded aluminum, wired, and programmed with an Arduino.
- **Raspberry Pi Security System** – A Raspberry Pi using Python to detect door and window openings. Detects if it's me via Bluetooth and Wi-Fi.
- **Ultrasonic Parking Sensor** – An Arduino that reads an ultrasonic sensor and displays the distance proportionally using a strip of addressable LED's for parking in a garage.

SKILLS: PHP, C#/.NET Framework, Angular 2+, HTML/CSS/JS, Allen-Bradley Controllogix, Java, Labview
Git, JIRA, Ubuntu with Apache 2, Windows Server 2016, Visual Studio and Visual Studio Code