

# ZHEN LU

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## EDUCATION

**Master of Science:** Applied Computer Science  
**Grand Valley State University** - Allendale, MI

08/2024  
**GPA: 3.918**

**Bachelor of Science in Engineering:** Computer Engineering  
**Grand Valley State University** - Allendale, MI

08/2019  
**GPA: 3.407**

- Dean's List: 2015 & 2019

## SKILLS

- Technical Application Analysis
- Technical Documentation
- Software Engineering Testing
- Embedded Software Programming (C)
- Software Engineering Programming (Java, Python)
- Experience in Software development life cycle (SDLC)

## WORK HISTORY

### **Field Test Engineer**

**LG Electronics** – Bolingbrook, IL

11/18/2019 – 11/1/2020

- Executed moderately complex field test plans and trouble analysis. Performed test plans as Customer required.
- Utilized diagnostic tools to capture log files for mobile communication devices and analyzed diagnostic logs.
- Performed field test analysis for customer reported issues. Diagnosed, and analyzed data, offered corrective actions, and provided report regarding results.
- Assisted with development of test proposals, developed, and implemented basic test proposals in accordance with Industry Standards regarding internal/external specifications.

### **Application Engineer Intern**

**Kaidi Electrical** - Holland, MI

01/2018 - 12/2018

- Collaborated with cross-functional development teams to analyze vertical furniture electrical actuators and parts as part of the R&D electrical and mechanical engineering team.
- Modified technical translation software to correct coding errors and improve overall performance.
- Performed (PLC) product testing aligned with BIFMA; documented for software knowledge base.
- Coordinated benchmarks, product analysis for performance evaluation.

## UNIVERSITY PROJECT EXPERIENCE

### Master class project: Calendar Calculator

- Coded used: Java
- Purpose of this code-based application was trying to comparing two different architectural design patterns: MVC vs MVP, showed the difference on the components and code aspect differentials.

### Senior Project: Automated food processing prototype

- Back-end Control used: Python through motor shield.
- Front-end GUI: Python Tkinter
- Designed the control sequence and passed the inspection requirements.

### Junior Project: Home Security System - Home Security Alert

- Tested/troubleshoot each sensor, learned the algorithm, and built the home case and assembly.
- Connected all parts, planned features, and uploaded codes to verify all sensors worked adequately.