

# JEMMA POFFINBARGER

## EMBEDDED SYSTEMS ENGINEER

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in jemma-poffinbarger

🐱 CaramelKat

## Skills

### PROGRAMMING LANGUAGES

NodeJS

Javascript

TypeScript

Swift

SwiftUI

C

C++

Java

HTML

CSS

### SOFTWARE

Docker

Git

MongoDB

Fiddler

Wireshark

AWS

PWA

Linux

### TESTING

Hardware Testing

Regression Testing

Utilizing System Requirements

Software Testing

Embedded Software

## Education

University of Wisconsin: Platteville  
B.S. Computer Science 2023

Aug. 2019 to May 2023

## Employment

### RFA Engineering

Embedded Systems Engineer I

Dubuque, IA  
July 2023 to Current

- Working on-site for our client John Deere Dubuque Works.
- Software & Hardware Testing for Construction and Forestry Displays.
- Planning and overseeing testing in an agile environment.
- Creation and automation of test plans for specific vehicle systems.

### University of Wisconsin: Platteville

ITS Hardware Staff

Platteville, WI  
Mar. 2022 to May 2023

- Management and deployment of computer assets
- Assisting customers with technology concerns
- Aids in the decommissioning of outdated hardware in an environmentally responsible manner

### Crystal Lake Scout Reservation

Business Manager

Rhineland, WI  
Jan. 2022 to Mar. 2022

- Managing camp budget
- Overseeing dining services and trading post sales
- Managing event registrations
- Processing payments

### Director of Ecology and Conservation

- Running outdoor activities
- Planning and executing outdoor education
- Assisting with staff training
- Directing area staff and instruction.

Rhineland, WI  
May 2021 to Aug. 2021

### Administrative Assistant

- Answering phone calls and emails
- Handling event registrations and management of staff
- Processing payments
- Developing informational web applications

Rhineland, WI  
May 2020 to Aug. 2020

## Projects

### Pretendo Network

2019 to Current

- Open-source replacement game servers for the Wii U and 3DS with over 15,000 users.
- Contributed to the development of on device patches to connect to the network without permanently modifying the system.
- Reverse engineered various network services and system applications.

### Juxtaposition

2019

- Open-source social media platform for web and resource-limited legacy game console browsers
- Designed and implemented a segmented back-end structure using MongoDB and NodeJS Express to ensure fast, reliable access for over 1,000 concurrent users across the globe.
- Created a modular, friendly user interface across multiple platforms to ensure flexibility and maintainability.
- Reverse-engineered existing and discontinued network services using Wireshark and Fiddler to implement API services compatible with 75+ existing games and clients according to their requirements.

### Tesomas dot Camp

2019 to 2020

- Progressive Web App to provide information about summer camp activities, as well as interactive activities that can be customized to a given camps need
- Facilitated the creation of a dynamic user interface that works across a variety of screen sizes.
- Developed tools to help clients continue to keep information on the site up to date.
- Integrated with existing internal tools to ensure a high-quality experience for all customers.

### CyberLabs – Senior Design Project

2022 to 2023

- Cybersecurity training tool that automatically grades students in a controlled environment
- Directed a team on the development of a database platform with a matching REST API.
- Directed the design of a modular database structure.
- Collaborated with a separate team on the inter-server communication of key resources.