Kayla Engelstad

7265 Stewart Drive
Eden Prairie, MN, 55346
(952) 607 - 7156
kengelstad16@gmail.com

Creative thinker seeking full-time employment in a collaborative, energetic environment, solving challenging problems and expanding professional horizons. Most interested in automation, data analysis, and interfacing with hardware.

Experience

Steidel Solutions — *Software Developer*
JUNE 2023 - FEBRUARY 2024

Full Stack Development: Independent, ground-up development of web applications from database diagrams to working demos (SQL/C#/.NET/Blazor).

Medspira Contract: Root-cause investigations and timely implementation of bug fixes (C#/.NET).

Emerson — *Software Engineer: GMS*
FEBRUARY 2022 - MAY 2023

Live Production Support: Troubleshooting, triage, and prioritization of assembly line issues across sites worldwide. Deployment of immediate fixes to production app (SQL/C#).

Expanding functionality: Collaborated with manufacturing engineers to launch products using the GMS MES application. This included defining requirements, database changes (SQL) as well as development and testing of software (C#/.NET).

Emerson — *Software Engineer: PSA/SSC*
JUNE 2020 - JANUARY 2022

Probe Conversion Project: Transitioned autonomous station controls, instrument communication, and operator interface away from monolithic legacy application (VB6). Deployed and supported the production release of new (TestStand/.NET) process that complies with SSC standards.

KDF Development Project: Comparison of multiple architectural solutions (Elastic Stack/.NET) for feasibility and robustness. Discussing and refining requirements with both manufacturing and software engineers.

Production Support: Provided quick responses to issues seen by operators, engineers, and technicians. Contributed to live troubleshooting and continual improvement of Viper (VB6/SQL) workflow management system.

University of Minnesota — *Exceed Lab Manager*
APRIL 2019 - MAY 2020

Continual improvement of a student makerspace. Responsible for the lab's communication, access, and organization. Knowledgeable advisor for other lab users.

Emerson, 2nd rotation — *Co-op: Test Engineer*
SUMMER 2019

Built an automated firmware test suite (Labview) for new product development. Control system design and proof of concept for an automated Air Velocity Test Fixture. Learned industry testing procedure, and conformed to Emerson's testing standards.

TECHNICAL EXPERTISE

C#/.NET

SQL

VB6

Blazor

NI Tools - TestStand

NI Tools - LabView

Elastic Stack

Python

TFS

Git

SKILLS

Hardware Troubleshooting

Object Oriented Design

Driving Independent Projects

Requirement Refinement

Data Processing

Interdisciplinary Collaboration

Quick Learner

Effective Written & Verbal Communication

COMPLETED COURSEWORK

Data Science

Machine Learning

Embedded Systems

Mechatronics

Program Development

Operating Systems

Artificial Intelligence

Emerson, 1st rotation — *Co-op: Quality Engineer* SUMMER 2018

Presented reports, analyzed field issues, prescribed data-driven preventative measures, and strove for increased quality awareness locally and internationally.

Harvard University, DREU — *Researcher* SUMMER 2017

Worked under Radhika Nagpal at the Self-Organizing Systems Research (SSR) Lab as a member of a team of 5 undergraduates, programmed (Python) and designed a low-cost mobile robot for use in outdoor collectives.

Education

University of Minnesota, Twin Cities FALL 2016 - MAY 2020 GPA: 3.3/4.0

Bachelor of Science: Computer Science, Neuroscience Minor, Dean's List: Spring 2017.

Zurich University of Applied Sciences, Study Abroad SUMMER 2019

Worked with a team of interdisciplinary engineering undergraduate students for 3 weeks to design, build, and code an autonomous robot to navigate obstacle courses (Python).

LEADERSHIP

Tesla Works Officer — *Purchasing Manager* 2017 - 2018

Responsible for securely ordering all supplies for Tesla Works and maintaining accurate financial records. Timely coordination and communication of orders.

Project Manager — *Neurohacking* 2017 - 2018

Led in the construction of a Brain Computer Interface for the purpose of controlling applications and machinery in real-time. Organization of recruitment, scheduling, education, and funding.

Algorithms/Data Structures

Machine Architecture

Ethics in Computing

Functional Programming

Robotic Systems

Cryptology