



Mohamed Mohamed

Systems Engineer

Engineering professional with hands-on experience in configuring, troubleshooting, and optimizing sensor and IoT devices. Skilled in SSH scripting and network monitoring. Known for diagnosing issues and ensuring stable and secure systems.

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WORK EXPERIENCE

Systems Application Engineer I SICK Inc.

06/2022 - Present

Bloomington, MN

Achievements/Tasks

- Programmed more than 100 Python scripts for automating data analysis, TCP/IP logging, and file organization
- Aided installation on Track and Trace systems for more than 40 tilt tray sorters, resulting in revenue recovery at FedEx and UPS sites
- Troubleshooted and tested more than 15 Track and Trace sensor solutions on barcode scanning and dimensioning systems
- Involved with obtaining NTEP certification on 2 Track and Trace systems to comply with site regulations

Design Engineering Co-op

Emerson Automation Solutions

01/2021 - 09/2021

Shakopee, MN

Achievements/Tasks

- Collaborated building a pipe fixture to test the performance of Emerson's X-well temperature sensor at temperatures beyond 300°C
- Implemented a test station to analyze the relationship between stem conduction and sensor accuracy in temperature measurement
- Conducted a cost analysis review on in-house injection molding versus outsourcing
- Implemented a data acquisition system using LabVIEW for connecting temperature sensors to Emerson's 848TX transmitter

EDUCATION

Mechanical Engineering

University of Minnesota — Twin Cities

09/2018 - 05/2022

Minneapolis, MN

SKILLS

Python

Computer networking

Building servers

Data science

GitHub

Linux/SSH

PERSONAL PROJECTS

Home Lab (10/2025 - Present)

- Build a home lab with a running Ubuntu server and NAS system for VPN, home streaming, and website/app hosting
- Created a custom OPNSense router from an old OptiPlex 760 that can manage firewalls, monitors traffic, and filters ads/threats

Teaching (09/2024 - Present)

- Teaching religious studies to students ages 7-13 in storytelling, jurisprudence, and manners

Tutor (01/2019 - 05/2022)

- Assisting children K-8 to further enhance studies in the mathematics, social sciences, and language arts

Open Arms (08/2023 - 01/1970)

- Volunteering to put a delicious, medically tailored meal on the table for someone in MN community living with a life-threatening illnesses

LANGUAGES

English

Native or Bilingual Proficiency

Somali

Professional Working Proficiency

INTERESTS

Machine Learning

Data Science

Sensor Devices

Engineering Modeling

Home Lab