Sinelk G. Berhane

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Sinelk Berhane

OBJECTIVE

Enthusiastically embracing intricate industrial challenges, I excel in guiding projects to deliver inventive solutions elevating efficiency, productivity, and safety. Proficient in harnessing advanced technologies for process optimization. Eager to leverage my expertise in a senior capacity, fostering growth, driving improvement, and enhancing organizational success.

COMPUTER & SOFTWARE SKILLS

BEGINNER	Factory Link, SQL, Python, C, C++, Java, MySQL, Visual Basic LabView, Motion Control
INTERMEDIATE	Setting up Managed switches FTView Studio, Panel Builder Banner Safety, GuardLink, MSR300
EXPERT	AutoCAD, Matlab, LaTeX, PSpice, HTML5
	Computer Hardware Support: VM Ware, Virtual BOX, MS Windows 95 - WIN10 MAC, Linux, Unix
	PLC Hardware : Controllogix, Compactlogix Micrologix, SLC500, Automax GE Proficy, IDEC and Mitsubishi
	PLC software : RSlogix500, RSlogix5000, Studio5000, Automax
	Drives : PowerFlex 700 serues PF750 series, PF500 series,
	Flex3000, GV3000, SA500 Drive Software: Drive Executive, CCW
	PanelView, Wonderware
	Safety devices: Keyence SZ-Scanner GuardMaster, 440C & 440R-Series
	Miscellaneous: SAP, MS Office,

EDUCATION

AUG 2022 – MAY 2024 **MS. in Electrical Engineering**
GRADE: 3.93/4
Focus: Power Distribution and Controls
University of Missouri Kansas City

AUG 2009 – MAY 2012 **BS. in Electrical Engineering**
NC A and T State University

WORK EXPERIENCE

NOV 2021 - PRESENT

Honeywell FM&T KCNSC, Kansas City, MO
Electrical Engineer

- Spearheading IIoT-driven digital manufacturing processes, championing ThingWorx adoption for streamlined data development. Leading projects such as fluid vision, Proof and Leak, IIoT machine connections, and making impactful contributions to Part Tracking initiatives and, enhancing process efficiency.
- Orchestrating seamless machine connectivity by collaborating with stakeholders, operators, maintenance, safety, advocating for efficient manufacturing, promoting safety and enhancing throughput through automation aligned with customer specifications.
- Leading Smart Factory and Digital Transformation initiatives, fostering enhanced efficiency in FM&T manufacturing. Proactively guiding projects, elevating metrics, and delivering customer-centric solutions through cross-functional collaboration..

JULY 2019 - NOVEMBER 2021

Honeywell FM&T NSC, Kansas City, MO
Electrical Engineer III

- Participated in establishing and reviewing specifications for new products and components. Reviewed test procedures for product and process conducted capability studies, reviewed data, and put more control in manufacturing process.
- Prepared reports, to analyze discrepancies, designed processes and gave recommendations for product design, operating procedure and manufacturing that improve productivity and quality while promoting safety and reducing flow time. Provided technical assistance in appropriate assigned field; by evaluating using six-sigma tools to reduce flow time, and enhance throughput.
- Designed processes to create a desired product using DFM as guideline. Initiated projects to make department improvements on DPU, efficiency and quality improvements.

AUG 2016 - FEB 2019

Goodyear Tire and Rubber, Danville,VA
Electrical Project Engineer

- Provided engineering solutions automating machines while complying with safety, environmental and other regulations by working with appropriate associates.
- Trained and instructed maintenance technicians in troubleshooting and installation to minimize machine downtime and improve productivity.
- Assisted in identification of unacceptable performance using core values and technical knowledge of to reduce waste and cost. Assisted in identifying opportunities for improvement for automating machines. Prepared and justifying cost estimates, leading in design of projects, supervising installation and commissioning for equipment upgrades and leading Contractor management process.

AWARDS

2010–2012 **Received outstanding student award**
NCA&T State University

Q1 2015 **"Consider it Solved Award"**
Emerson Network Power

PERSONALITY AND SKILLS

Goal Oriented

I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgment to immediately act based on consensus to achieve goals quickly and efficiently.

Passionate

I have been interested in science and engineering such as electricity, power and relativity from an early age. My education and work experience have cemented this interest into a reality. I greatly enjoy using my engineering skills to solve real world problems.

Challenge

Passionate about embracing challenges as opportunities for growth and innovation. Thrives in dynamic environments where each hurdle is a chance to learn, adapt, and excel. Excited to apply this mindset to drive creative problem-solving and contribute to the ongoing success of impactful projects.

Project Management

I have great experience of scoping projects, managing projects and demonstrating leadership of the project until completion.

ORGRANIZATION, ACTIVITIES & VOLUNTEERING

2023 - PRESENT Electrical Safety Council at KCNSC
2010–2012 Active Member of NSBE
2010–2012 NC-LSAMP/STEM member
2011 Built homes in Louisiana for people affected by Hurricane with Habitat for Humanity
(children's robotics competition) carnival event
2008-2010 Leadership member of Rotaract club for Students
2007 Director of International Students Club

CERTIFICATION

2011/2020 Six Sigma Green Belt
2022 Studio5000 Logix Designer
2022 FT Vie ME PanelView Plus
2020 GD&T Basics
2021 IPC-6012
2023 LabView Core 1&2

OCT 2015 - AUG 2016

Champion Industries, Winston,NC
Electrical Engineer

- Designed and modified electrical drawings and create bills of material for project components and manufacturing products. Updated/improved existing products. Wrote PLC programs, design and component specification. Test and simulate real life failure scenarios for dishwashers and look for improvement opportunities.
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- Assembled, wired and built dishwasher cabinets for manufacturing, Research and Development and testing purposes

JUN 2014 - OCT 2015

Emerson Network Power, Welcome,NC
Test Technician

- Setup and performed Power Control Systems (PCS) testing based on Sequence of Operation and promoted a safe work environment in low and medium voltage environment.
- Configured setup and tested PLCs, SCADA and power management networks and troubleshoot, correct and document wiring and programming errors accordance to project goals and wiring diagrams.
- Checked bill of materials of switch gear, set up electronic components and developed and built test simulations for customized PCS switchgear.

JUN 2012 - JUN 2013

National Institute of Aerospace, Hampton,VA
Graduate Researcher

- Conducted research, analyzed data and presented about Optical Communication in small satellites and visible light communication. Learned about space simulation systems, communication in visible spectrum and presented and discussed my conducted research.
- Utilized Satellite Tool Kit (STK) to simulate and design orbit of satellite communications.

JAN 2010 - MAY 2012

NC A&T State University, Greensboro,NC
Undergraduate Researcher

- Atmospheric, Oceanic and Environmental Research: developed cheap, compact and portable nanoscale and chemical sensors utilized Lab View, C++, Optics, circuits and electrical testing skills to develop phototube circuitry.
- Senior Design: Researched towards building autonomous robot system (Hexapod), utilized Basic Atom Pro (similar to Assembly Language), Power POD (Robot calibrating and simulating software).
- Growth of Low dislocated relaxed layer: Researched about Transfer length measurement, hybrid light emitting device, Semiconductors, Inventoried chemical Detergents and utilized MS EXCEL and WORD to collect data.