

# ABREHAM MINDAYE

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## EDUCATION

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### NEW JERSEY INSTITUTE OF TECHNOLOGY

Newark, NJ

#### Master of Science in Computer Science

Anticipated Dec 2023

Relevant Coursework: Cloud Computing, Software Architecture; Operating System Design; Algorithms; Web System Design

#### Bachelor of Science in Electrical Engineering

Graduated May 2020

## WORK EXPERIENCE

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### ZT Systems

Secaucus, NJ

Senior Test Engineer, Compute Team Tech Lead

Jan 2023 – Present

- Lead the automation of testing procedures for the compute team, utilizing scripting languages such as Bash and Python
- Researched and developed ML/AI workloads to validate advanced GPU based compute server platforms interconnected via technologies such as Infiniband
- Created detailed test plans that encompass various aspects of GPU-based server platforms targeting a comprehensive coverage of system functionalities, performance analysis, stability assesment
- Analyzed large datasets generated from tests to identify bugs with the server hardware, fw, or software design, as well as debugged and performed root cause analysis
- Collaborated with cross functional teams both within and outside the company via software such as ADO and JIRA to address and resolve bugs

Test Engineer

Dec 2020 – Dec 2022

- Executed custom test cases for advanced storage and compute server platforms using an internal testing framework
- Identify hardware, fw, and/or software bugs with the server platform design using data visualization methods
- Work with cross functional teams to debug and root cause issues found during testing
- Prepare and present test reports that detail testing results and their functional impact

### GEA Group

Northvale, NJ

Electrical Controls Engineer

Jun 2020 – Dec 2020

- Consult with clients and integrators to design control systems for a wide range of centrifuge applications
- Program Allen Bradley PLCs and HMIs for various centrifuge end user applications
- Perform a series of calculations to select the ideal controls equipment and control panel design that will accommodate project specifications as well as satisfy safety guidelines such as NEC hazardous conditions
- Assist with project commissioning and system startups at customer plant sites

Associate Electrical Controls Engineer (*started as an intern and continued part time as an associate engineer*)

Jun 2019 – Jun 2020

- Troubleshoot customers' on-site issues via the phone or by physically visiting the site
- Design or modify PLC and HMI programs, using Rockwell software such as Factory Talk and RSLogix 5000, to tailor to specific project application
- Conduct panel checkouts to ensure proper wiring and functionality of all instrumentation as well as upload all necessary parameters and programs into panels

## PROJECTS/OPEN-SOURCE

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**AWS Parallel Machine Learning Training** - Parallel machine learning (ML) application developed in Amazon AWS

**News Feed App** - A full stack Django based web application with user management that retrieves news articles in real time

**Connect Four Game** - A front end browser based connect four game built with HTML, CSS, JavaScript, and jQuery

## SKILLS

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**Programming Languages | Software:** Python, C, Bash, SQL, Ladder Logic | Django, RsLogix, FactoryTalk, ADO, JIRA

**Hardware and Equipment:** PLCs, HMIs, VFDKs, Server Platforms, GPU accelerators, CPUs

**Interfaces and Protocols:** UART, I2C, Redfish, Infiniband, Ethernet