ABREHAM MINDAYE

Cell: (201) 467-1149 https://www.linkedin.com/in/abe-min Email: aam75@njit.edu

EDUCATION

New Jersey Institute of Technology, Newark, NJ
M.S, Software Engineering (ABET accredited) ***Anticipated graduation: December 2022***

New Jersey Institute of Technology, Newark, NJ
B.S., Electrical Engineering (ABET accredited) ***Graduated: May 2020***

SKILLS

- **Hardware and Equipment:** Building and troubleshooting PCs, Microprocessors, PLC & HMI programming, VFDs, Unmanned Aerial Vehicles
- **Software**: MATLAB, Microsoft Visual Studio, RSLogix 5000, FactoryTalk View, SolidWorks, Microsoft Office (Excel, PPT, Word, Access)
- **Programming Language**: C++, Python, MATLAB, Assembly Language, Ladder Logic

RELEVANT PROFESSIONAL EXPERIENCE

GEA Group, Northvale, NJ

Electrical Controls Engineer ***June 2020 - Present***

- Test and validate electrical controls hardware and software such as PLCs, HMIs, and VFDs
- Program Allen Bradley PLCs and HMIs for various end user applications
- Consult with clients and integrators to design control systems for a wide range of centrifuge 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
- Create factory acceptance test plans and standards; perform and document tests, extrapolate conclusions from test data and share results with the project team and the customer
- Assist with project commissioning and system startups at customer plant sites

Associate Electrical Controls Engineer ***September 2019 - May 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

Electrical Controls Engineering Intern ***June 2019 - August 2019***

- Install, configure, and wire sensors and other instruments inside control panels
- Create scientific report including centrifuge and VFD test data
- Update and redline P&IDs and electrical drawings to meet project specifications

STEM at Bergen Community College, Paramus, NJ

UAV Research Intern (Team Leader) ***June 2017 - September 2017***

- Research, design, and program drone configurations to be used for the purpose of aerial field inspection of construction sites and power lines
- As team leader, coordinated and assigned tasks to other interns, as well as organized data received from field tests
- At the end of the internship, prepared a detailed report of the project cost, specifications, and technical diagrams using Microsoft Office tools (Excel, Word, PPT) and Solid Works

RESEARCH AND PROJECTS

Microscopic Image Processing Algorithm: *Senior Design Project at NJIT*

- Develop automated methods of localizing and tracking cells of microscopic videos for medical analysis
- Experiment with various methods of "filtering" the video sample for better image recognition
- Utilize MATLAB to write a series of algorithms to enhance the image recognition and automated cell motion tracking capabilities of the software

ADDITIONAL WORK EXPERIENCE

Cerullo Learning Assistance Center, Paramus, NJ

Tutor and Assistant Professor ***February 2015 - May 2019***

- Serve as a professional tutor for STEM courses such as Physics, Mathematics, and Chemistry
- Plan and facilitates weekly study sessions and lectures by collaborating with professors