

# Ahmed Osman Abdelaziz Abobaker

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## Education

The Pennsylvania State University

**Expected Graduation: August 2024**

Bachelor of Science in Industrial Engineering

**Relevant Coursework:** Human/Computer Interface Design, Engineering Analytics, Industrial Robot applications, Deterministic & Stochastic Operations Research, Service Systems, Additive Manufacturing & Reverse Engineering, Work Design and Simulation Modeling for Decision Support.

## Projects

**Senior Design Project Energy and Water Reduction, TechnipFMC (Erie PA, USA)      September 2023 – April 2024**

- Conducted analysis on water and energy consumption in the parts washing and plating department.
- Engineered strategies to minimize energy and water consumption, addressing environmental concerns.

**Genio Management Software System, (Khartoum, Sudan)      October 2021 – December 2022**

- Designed an interface for a comprehensive management system tailored for hotels.
- Included modules for Reception, Restaurant, Laundry, Human Resources, Accounts, and Management functions.

## Related Work Experience

**Robotics Lab Teacher Assistant, The Pennsylvania State University (Erie PA, USA)      January 2024 – Present**

- Instructing on the operation and programming of Fanuc Robots, facilitating hands-on learning experiences.
- Demonstrating the utilization of Faro Arm for precision measurement and inspection tasks, enhancing students' understanding of metrology principles.

**Operation Manager, Al – Faisal Hotel (Khartoum, Sudan)      December 2020 – December 2022**

- Led hotel operations, focusing on efficiency, guest satisfaction, and cost control.
- Introduced a new operational system to enhance overall efficiency and guest satisfaction.

## Other Work Experience

**Operation Analyst, Ocean International LTD. (Jeddah, Saudi Arabia)      March 2022 – November 2022**

- Tracked shipments and noted issues in the clearing and delivery process using the company's online system.

**Logistical Agent, Morooj Mining (Khartoum, Sudan)      September 2018 – February 2022**

- Organized logistical requirements in the capital Khartoum for the company, operating in Al-Gaab North Sudan.
- Maintained positive relationships with the Ministry of Mining to obtain necessary documents and complete paperwork for the job.

**Operation Supervisor, Al – Faisal Hotel (Khartoum, Sudan)      September 2018 – March 2020**

- Supervised reception staff and housekeeping team to maintain efficient operations.

## Skills

- Fluent in English & Arabic.
- Proficiency in Simio for simulation modeling and analysis.
- Proficiency in operating and utilizing Faro Arm laser scanners for precise measurements, inspection tasks and reverse engineering.
- Proficiency in Microsoft Office Suite (Word, Excel, PowerPoint, Outlook, Visio).
- Advanced knowledge of statistical analysis using Minitab, R, Tableau, MATLAB, and Python.
- Skilled in operating and programming Fanuc robotics systems for manufacturing processes.
- Experience with AMPL for optimization modeling and linear programming.
- Experience with PolyWorks for precision measurement and inspection tasks.