

John Arkerson

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EDUCATION

Rowan University

B.A. Computer and Informatics

- Certificate in Management of Information Security
- Concentration in Cyber Security

May 2021 | Glassboro, NJ
GPA 3.67 /4.0

Coursework

- Principles of Data Structures
- Web Server Platforms
- Advanced Database Management
- Principles of Information Security
- Advanced Web Development
- Applied Database Technologies
- Advanced Programming Workshop
- Blockchain Applications
- Computer Networks & Data Communication

SKILLS

Programming

- Python
- C++
- JavaScript
- SQL
- HTML/CSS
- React

ACTIVITIES

All Hands and Hearts | 2019 -2020

Volunteer to help rebuild Puerto Rico infrastructure

Phi Sigma Pi Honors Fraternity | 2018 – 2021

Exec Board Brother-at-Large:
mediator of issues and event planner;
Grand Chapter Amendment
Committee, Chair

EXPERIENCE

Coherent, Optoelectronics Division | Software Engineer

July 2022 - May 2024 | Pinebrook, NJ

Web and application developer

- Developed multiple internal production React websites used by 10,000+ employees across manufacturing locations around the world
- Developed python programs to automate upload of tool measurement data to SQL Server database for employee use across site locations
- Administrated employee account permissions
- Developed dispatch screens for production floor to visualize SPC charts for operator use in the Factory
- Developed internal production React website to generate spreadsheets with product measurement data as well as Zebra shipping and warehouse labels for customer use and product tracking

Coherent, Optoelectronics Division | Production Planner

March 2022 - July 2022 | Pinebrook, NJ

- Responsible for creating production schedule of operations throughout the factory and ensuring that the factory makes shipments on time
- Responsible for creating and confirming production orders in SAP

Coherent, Optoelectronics Division | Fabrication Operator

December 2021 - March 2022 | Pinebrook, NJ

- Ran and maintained fabrication tools

New Jersey City University | Research Assistant

Summer 2019 | Jersey City, NJ

- Created python script to reformat transcripts and clean data

Coherent, Optoelectronics Division | Summer Internships

2017 - 2018 | Easton, PA \ Warren, NJ

Wafer Inspector

- Inspected semiconductor wafers for defects to send inventory for potential manufacture or to scrap

IT Internship

- Debugged and revised Python programs for factory operational metrics as issues in the code were discovered
- Designed a C++ / Excel Macro program that automated the creation of a master sheet that compiled clean room data from multiple directories and facilities
- Designed the front page of the II-VI IT department website
- Worked on the facility server and network system configurations at the sister II-VI site in Easton, PA
- Debugged and rewired network servers in the Warren facility
- Developed Warren facility office space floor plan to reconfigure and optimize department efficiency using CAD software

References Available Upon Request