Adam Attia

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TECHNICAL SKILLS

Languages: C/C++, Javascript, MATLAB, Python, Verilog
Cloud Technologies: Ansible, AWS, Azure, Docker, Helm, Kubernetes, Terraform
Software and OS: Unix, Microsoft Office Suite, LTSpice, AutoCAD Electrical, Altium, SOLIDWORKS

PROFESSIONAL EXPERIENCE

Lockheed Martin, Moorestown, NJ *June 2023 - Present*
Software Engineer II - DevOps

- Created ReactJS application to display tracking simulators and map tiles from geospatial data in airgapped setting
- Containerized and orchestrated applications to deploy in DoD Impact Level 4 and 6 with Docker and Kubernetes
- Deployed Azure cloud infrastructure, including scalable virtual machines and kubernetes clusters via Terraform
- Implemented GitLab CI/CD pipelines in the cloud environment to ensure private registry applications are up-to-date

Universal Instruments, Conklin, NY *June 2022 - June 2023*
Electrical Engineer I

- Facilitated field operations, maintenance, and upgrades of insertion mount and surface mount technology
- Reduced expected lead time by 6 weeks via retrofitting systems with parts ensured through available supply chain
- Documented and captured electrical design modifications via AutoCAD Electrical and presented changes to team

PROJECT EXPERIENCE

Guitar Amplifier with Effects, Binghamton, NY *August 2021 - May 2022*
Project Lead

- Spearheaded designing of modified guitar amplifier schematic with the addition of digital effects in LTSpice
- Utilized MATLAB's digital signal processing functions to make Reverb and Tremolo and converted scripts to C++
- Streamlined physical build while upholding needed requirements and safety procedures

Wireless Power Transmission System, Binghamton, NY *March 2021 - May 2021*
Project Lead

- Constructed system to compare pulse and sinusoid signals through electromagnetically coupled coils to specified load
- Analyzed component datasheets and electronically generated input signals to model system via PSpice
- Performed electrical stress analysis of components to verify design validity and measured all relevant I/O data

Input Direction Robot, Binghamton, NY *March 2020 - May 2020*
Software Developer

- Programmed Pololu-3Pi Robot to take four sequences of inputs: direction, speed, time and execute them in order
- Wrote C++ code for GUI, directing the robot to turn, reverse, or move forwards, at various speeds and time intervals
- Compiled report explaining design choices and giving detailed descriptions for each section of code

LEADERSHIP AND VOLUNTEER EXPERIENCE

The Society of Hispanic Professional Engineers, Binghamton, NY *September 2019 - May 2023*
Graduate Advisor

- Communicated with general body and kept them up to date on planned events, and career/learning opportunities
- Devised creation of career development, fundraising, and cultural diversity events to promote career success

EDUCATION

Binghamton University, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Electrical & Computer Engineering
Cumulative GPA: 3.75/4.00
Bachelor of Science in Electrical Engineering
Cumulative GPA: 3.48/4.00