William Locklier

M.S. Computer Science | AI & Automation Engineer

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SUMMARY

Results-driven professional leveraging military discipline and engineering expertise in chemical, systems, robotics, automation, AI, and software engineering. Proven success in operational efficiency, quality control, leading teams, and solving complex technical challenges through continuous learning and innovation.

SKILLS

Languages: Python, Java, C/C++, HTML, SQL, JavaScript, Excel VBA
Frameworks/Tools: Linux, Docker, Git, AWS (EC2), VMMs, VPNs, ROS 2, Gazebo, PyTorch, TensorFlow, Pandas, NumPy, Jupyter Notebook, Scikit-learn, Matplotlib, IntelliJ, Eclipse, React, Node.js
Concepts and AI: UML, Agile, SOLID, Systems / Software Engineering, Machine Learning, RL, Neural Networks

EDUCATION

MASTER OF SCIENCE, COMPUTER SCIENCE **Aug 2023 – Dec 2025**
University of South Alabama | Mobile, Alabama | **Graduated**, GPA: 4.0

- Relevant coursework: Advanced Data Structures & Algorithms, Software Engineering Principles, AI Theory and Programming, Data Mining, Cloud Computing, Distributed Systems, Programming Theory

BACHELOR OF SCIENCE, CHEMICAL ENGINEERING **Jan 2016 – May 2020**
University of South Alabama | Mobile, Alabama | **Graduated**, GPA: 3.28

- Relevant coursework: Calculus (1 – 4), Physics (1 – 2), Reactor Design, Thermodynamics, Transport Phenomenon, Separations, Process Dynamics & Controls, Process Design, Engineering Optimization

PROJECTS

MASTER'S THESIS, NLPSA ANOMALY DETECTION IN ROS 2 COMMUNICATIONS **Published by IEEE**

- Developed a reproducible ROS 2 intrusion-detection testbed and data pipeline utilizing Gazebo and Raspberry Pi devices, demonstrating effective man-in-the-middle attack detection in both testing and validation via Nonlinear Phase Space Analysis using only ROS topic data.

RESEARCH PROJECT, SIAMESE NEURAL NETWORK FOR PAREIDOLIA MITIGATION **Completed**

- Developed a Siamese Neural Network (TensorFlow/Keras) with shared-weight convolutional architecture to distinguish genuine human faces from pareidolic (face-like) patterns using similarity-based learning.
- Built paired-image pipeline (LFW and Faces in Things datasets) and trained with contrastive loss achieving 99.6% accuracy and 0.999 AUC with robust generalization on unseen categories.

EXPERIENCE

BIOLOGIC OPERATIONS ENGINEERING TECHNICIAN **May 2021 – May 2022**
Pfizer Inc (Contracted via Actalent) | Kalamazoo, Michigan

- Operated a Tangential-Flow Filtration skid (DeltaV/SCADA) to manufacture several million doses/week of mRNA-1273, meeting 100% batch-release targets during Project Lightspeed
- Collaborated with engineering team to design and implement changes to system operations in trials
- Trained and coached 3 techs as a certified OJT trainer to improve SOP adherence

QUALITY CONTROL ENGINEER AND DISTILLER **Dec 2020 – Feb 2021**
Michigan Moonshine LLC | Grandville, Michigan

- Operated a reflux still for spirit production utilizing a PID controller and documenting QC procedures
- Increased process quality and yield by 10 – 15% through data analysis and collaboration with owners

AVIATION MECHANIC APPRENTICE AND WORKING PARTY LEADER **Jun 2013 – Jun 2014**
United States Marine Corps | Pensacola, Florida

- Led small Marine teams coordinating base operational tasks, training and facility management
- Honorable Discharge