

HARTLEY H. LEROY

Charlotte, NC · 704-222-8144 · hartley.leroy1997@gmail.com · linkedin.com/in/hartley-leroy

PROFESSIONAL EXPERIENCE

Lucid Bots – Charlotte, NC

Software Engineer – Robotics Fleet Management | Sep 2024 – Jul 2025

- Managed the migration from a third-party fleet management offering to in-house AWS MAP–funded infrastructure worth 500 thousand dollars.
- Engineered telemetry, OTA update, and log ingestion pipelines using AWS IoT Core, Kinesis, Firehose, Glue, S3, Athena.
- Integrated pipelines with ROS2/PX4 drones, optimizing data ingestion and reliability.
- Laid foundation for real-time teleoperation via bidirectional communication between edge and cloud devices.

Keep It Simple Storage – Cornelius, NC

Product Manager (Software/Firmware) | Oct 2023 – Sep 2024

- Directed 6 engineers building internal tools and customer-facing systems.
- Scoped, prioritized, and executed features via Agile/Scrum, aligning development with business goals.
- Integrated firmware for NFC energy harvesting smart lock.

First Turn Innovations – Cornelius, NC

Prototype Engineer | Jan 2023 – Oct 2023

- Developed hardware/software prototypes and MVPs; built Python & embedded C tools.
- Conducted hardware evaluations balancing performance, cost, and scalability.

Delphi Digital – Remote/New York, NY

Blockchain Research Analyst | Nov 2021 – Jan 2023

- Analyzed blockchain tokenomics, governance, and infrastructure.
- Built Python/SQL research tools; delivered data-driven reports for institutional investors.

Softthread Inc. – Miami, FL

Software Engineer – Front End | Nov 2020 – Nov 2021

- Developed React/Vue/Next.js components for a privacy-focused blockchain platform.
- Collaborated on API design for blockchain transactions.

FDA – CDRH – Oak Ridge, TN

ORISE Fellow | Aug 2020 – Nov 2021

- Supported AI and blockchain strategy; coordinated cross-team projects.
- Contributed to published medical innovation research (*JAMA*, 2023)

EDUCATION

North Carolina State University – Raleigh, NC

M.S. Electrical Engineering – Computational Intelligence & Computer Vision — May 2020

B.S. Electrical Engineering, Minor in Business Administration — May 2019

SKILLS

Cloud & Data Engineering: AWS IoT Core, Kinesis, Firehose, Glue, S3, Athena, Lambda, Cloud Architecture, Data Ingestion Pipelines

Software Development: ROS2, PX4, Python, SQL, JavaScript, TypeScript, React, Vue, Next.js, Embedded C

Processes & Methods: Agile/Scrum, Prototyping, Cross-functional Collaboration

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PROFESSIONAL EXPERIENCE

Lucid Bots – Charlotte, NC

Software Engineer – Robotics Fleet Management | Sep 2024 – Jul 2025

- Led AWS MAP–funded initiative replacing third-party fleet management with in-house architecture.
- Scoped cross-functional requirements and prioritized features into dev-ready deliverables.
- Directed telemetry, OTA update, and log ingestion pipeline development from design to deployment.

Keep It Simple Storage – Cornelius, NC

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