

Jonathan C. Licurse

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CAREER OBJECTIVE

Highly motivated and enthusiastic college student seeking to apply my education in a real-world setting. Prepared to utilize strong interpersonal skills and workplace dependability to contribute to a successful effort.

EDUCATION

SUNY New Paltz, New Paltz, NY

Graduating in: May 2026

Bachelor of Science, Computer Science

- Current GPA: 3.4
- Relevant Coursework: API Design, SQL, Functional Programming, Multithreading, Data Streams, Software Engineering, Discrete Mathematical Structures, Discrete and Continuous Algorithms, Language Processing, Digital Logic Engineering

EXPERIENCE

Toyota Material Handling North America, Greene, NY

June 2025 – August 2025

Electrical Systems Co-Op: Embedded Systems Function Test Platform

- Built a modular C framework to automate validation of embedded firmware independent of vehicle hardware
- Implemented CANopen SDO modules and C scripts for automated test orchestration.
- Authored detailed system documentation defining API usage, safety constraints, and verification procedures to standardize future testing

Curtis Instruments, Mount Kisco, NY

June 2023 – August 2023

Software Engineering Intern: Python-Based Communication Simulator

- Developed a Python simulator emulating networked CAN/CANopen devices for virtual system testing.
- Implemented modular messaging, asynchronous communication, and automated verification routines.
- Presented simulator functionality and results to engineering and corporate executives.

PROJECTS

Fibonacci Sequence Compute Engine (Java, gRPC, Protocol Buffers)

- Built a distributed computation engine supporting remote task execution and result streaming over gRPC
- Implemented multithreading and protocol buffer serialization for efficient parallel processing.

AI Agent Framework (Python, Anthropic API, Open-Meteo, RSS)

- Developed intelligent agents integrating Anthropic's Claude with external APIs for real-time weather retrieval and multi-source news analysis.
- Implemented tool-calling, data parsing, and summarization pipelines enabling dynamic, conversational automation across diverse information domains.

SKILLS

Technical Skills

- Programming Languages: Java, Python, C, SQL, HTML, Assembly Language
- Tools & IDEs: Visual Studio Code, Code Composer Studio, Eclipse, PyCharm, Git, Github, SourceTree
- Embedded Systems & Protocols: TI C2000 (TMS320F28388S), CAN / CANopen, Antenna signal processing, system timers
- AI/Machine Learning Tools: OpenAI API, Anthropic Claude, LangChain, TensorFlow
- Platforms/OS: Windows, MacOS, Ubuntu

Interpersonal Skills

- Strong willingness to accept feedback and implement changes for future improvements
- High emotional intelligence and patience in complex situations
- Dynamic, outgoing personality with a service-focused mindset
- Excellent ability to clearly and concisely communicate information
- Proven success working with a team, and as an individual
- Highly punctual, reliable, and detail oriented employee