

# Huu Thang Ly

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## EDUCATION

<b>Florida International University (FIU)</b>   Miami, FL <i>Bachelor of Science in Computer Engineering</i>	Expected: May 2026 GPA: <b>3.97</b> /4.00
<b>Relevant Courses:</b> Machine Learning, Embedded Computing, Autonomous Systems, Microcomputers, Data Structures & Algorithms, Cloud Services, Signals & Systems, Linear Systems, Differential Equations	

## WORK EXPERIENCE

<b>Global AI Mining</b> <i>Embedded AI Engineer Intern</i>	Upland, CA (Remote) July 2025 - Present
<ul style="list-style-type: none"><li>Developing a smart audio recording system using Raspberry Pi to enable AI for real-time monitoring, analysis, and response generation in audio conversations to enhance customer service quality and response accuracy</li><li>Researching deployment strategies for small language models on edge devices to optimize AI inference performance and reduce latency for resource-constrained environments</li></ul>	
<b>Florida International University</b> <i>Undergraduate Research Assistant / Dr. Himanshu Upadhyay's Lab</i>	Miami, FL September 2025 - Present
<ul style="list-style-type: none"><li>Implementing an autonomous drone system integrating YOLO for object detection and Vision-Language Models for mission planning and task execution in Unreal Engine simulation environment</li><li>Architecting multi-agent systems with LangChain for cybersecurity operations and researching system-wide evaluation frameworks to strengthen reliability and performance</li></ul>	
<i>Undergraduate Research Assistant / Dr. Shekhar Bhansali's Lab</i>	May 2024 - August 2025
<ul style="list-style-type: none"><li>Built a VR-enabled 3D printing system with digital twin technology for remote printer monitoring and control, improving accessibility and efficiency in additive manufacturing</li><li>Pursued research on advanced 3D printing with copper slurry and laser sintering to augment electrical conductivity and flexibility of sensors and printed circuit boards</li></ul>	

## PROJECTS | [View Projects](#)

<b>InsuMAS</b>   <b>ShellHacks 2025</b>   AI Developer	September 2025
<ul style="list-style-type: none"><li>Partnered with 2 students to create a sophisticated multi-agent AI system providing comprehensive assistance for insurance-related queries</li><li>Designed supervisor-agent architecture to intelligently route user requests, enabling the system to explain complex insurance terminology, recommend suitable plans, calculate costs, and locate healthcare providers</li><li>Leveraged Python, LangChain for agent orchestration, and Gradio for interactive UI deployment</li></ul>	
<b>Butterfly Garden IoT</b>   <b>INIT Build</b>   Embedded Systems Developer	October 2024 - December 2024
<ul style="list-style-type: none"><li>Advanced FIU's first butterfly garden with a team of 10 contributors, utilizing IoT and embedded systems for environmental conservation and visitor engagement monitoring</li><li>Engineered Arduino Uno and ESP32 microcontrollers to interface with temperature, humidity, air quality, and gas sensors for real-time environmental assessment</li><li>Applied C++ with PlatformIO and Git for hardware-software integration and efficient code management</li></ul>	
<b>CatTrax - VR game</b>   <b>INIT Build</b>   Backend Developer	February 2024 - April 2024
<ul style="list-style-type: none"><li>Collaborated with 7 developers to build a VR game simulating real locomotive controls, allowing players to navigate a cat train between tracks to avoid obstacles</li><li>Creating core features for cat train, including track switching, collision detection, health system, timer mechanics, and particle effects to optimize gameplay experience</li><li>Utilized Unity for game development and Git for version control and team coordination</li></ul>	

## SKILLS

<b>Programming:</b> C/C++, Java, Python, JavaScript, HTML, CSS, MIPS, MATLAB, VHDL
<b>Libraries &amp; Frameworks:</b> Pandas, NumPy, Matplotlib, Scikit-learn, Langchain, React.js
<b>Software:</b> Git, Linux, Jupyter Notebook, Unity, Unreal Engine, Azure, Fusion 360, Power BI, Multisim, Vivado
<b>Hardware:</b> Analog/Digital Design, FPGA Development, Oscilloscope, Soldering, 3D Printing, Raspberry Pi, Arduino, ESP32
<b>Certifications:</b> Azure Fundamentals (AZ-900), CodePath Intermediate Web Development