

# Xingtai Huang

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## EDUCATION

<b>Cornell Tech, Cornell University</b> <b>MEng in Electrical and Computer Engineering, GPA 3.87</b> , Merit Scholarship Relevant Coursework: Applied Machine Learning (coursework), HCI Design, Intelligent Autonomous Systems Human-Robot Interaction, Productizing Machine Learning	New York, NY Expected May 2026
<b>Syracuse University</b> <b>BS in Electrical Engineering, GPA: 3.88</b> , Annual Dean's Scholarship, Invest in Success Scholarship Relevant Coursework: Systems & Network Programming (sockets, concurrency, protocol basics) Object-Oriented Design, Mathematical Statistics, Intro to Virtual Reality	Syracuse, NY Dec 2024

## TECHNICAL SKILLS

<b>Coding Languages:</b> C, Python   <b>CS:</b> Data Structures & Algorithms, Operating Systems <b>Algorithms:</b> arrays/hash maps, two pointers, binary search, stacks/queues, sliding window, linked lists, trees (BFS/DFS) <b>Tools:</b> Linux, Jupyter, ROS2 <b>Libraries:</b> scikit-learn, pandas, numpy	
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## SELECTED PROJECTS

<b>Multithreaded TCP Client–Server Echo</b> , (C / Winsock) <a href="#">[GitHub]</a> <i>Built a multithreaded TCP echo server/client on Windows using Winsock.</i> <ul style="list-style-type: none"><li>• Built a TCP client/server in C using Winsock, covering bind/listen/accept/connect, send/recv.</li><li>• Enabled multi-client concurrency by spawning one thread per connection (CreateThread) and validated correct echo behavior with multiple simultaneous clients.</li></ul>	Feb 2026
<b>Disaster Tweet Classification with NLP</b> , (Python / Logistic Regression) <a href="#">[GitHub]</a> <i>Built a disaster-related tweets classifier from raw social media text.</i> <ul style="list-style-type: none"><li>• Implemented a Python text-classification pipeline (preprocessing → text vectorization → training / evaluation) for disaster tweet detection, using scikit-learn CountVectorizer n-gram features (1–2, min_df=2, max_features=5000).</li><li>• Compared unigram vs. unigram+bigram features and regularization options (none/L1/L2) on a held-out dev set; selected L2 for best F1/accuracy.</li><li>• Tuned L2 regularization strength (C=0.3) to improve F1/accuracy; achieved a 0.796 Kaggle public score; visualized top 10 positive/negative tokens to explain predictions.</li></ul>	Jan 2026
<b>LoopMind – Route Optimization Product Concept</b> , (Product Studio) Cornell Tech <i>Team of 4; designed a truck route-optimization product concept from discovery to prototype</i> <ul style="list-style-type: none"><li>• Designed a multi-stop routing product from 0→1—interviewed trucking stakeholders, mapped workflows, narrowed 80+ ideas to a core concept, and built an interactive Figma prototype (driver app + fleet dashboard) presented at Maker Days.</li></ul>	Fall 2025
<b>Self-Balancing Robot</b> , (ItsyBitsy M4 / Arduino C) <a href="#">[GitHub]</a> <i>Team of 3; built a self-balancing car from scratch to demonstrate IMU-based closed-loop control.</i> <ul style="list-style-type: none"><li>• Programmed Arduino C control firmware to read BNO055 tilt (gravity-X) feedback and run a PID control loop to drive wheel speed/direction via PWM/DIR (tilt detected by IMU → PID → wheels move to counter tilt); maintained stable balance on a flat floor.</li><li>• Tuned PID gains through iterative testing to reduce oscillation (~40%) and improve recovery from small pushes under varying floor friction.</li><li>• Logged timing, tilt angle, and motor commands on Serial Monitor; enabled quicker tests and easier debugging.</li><li>• Demonstrated stable balancing at the department exhibition; received positive feedback from visitors and faculty.</li></ul>	Spring 2024

## LEADERSHIP & EXTRACURRICULARS

<b>Cornell Tech, Student Ambassador</b> , New York, NY • Supported Admissions webinar (~40 prospects); live Q&A + email follow-ups; routed policy questions to Admissions.	Sep 2025–Present
<b>Syracuse University Chinese Student Association, Publicity Designer</b> , Syracuse, NY • Produced 2 event posters and 5 WeChat/Weibo social posts; refreshed the logo and designed an “I Orange SU” tote referencing SU’s otto mascot and SU wordmark.	Sep 2022–Dec 2024