

Jimmy Padilla

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EDUCATION

University of Connecticut Bachelor of Science in Computer Science and Mechanical Engineering <ul style="list-style-type: none">UConn Honors Program4.000 GPAPresidential Scholarship for Valedictorians	Storrs, CT Aug 2024 – May 2028
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SKILLS AND COURSEWORK

Programming & Tools: Python, C, C++, Java, JavaScript, MATLAB, Simulink, AutoCAD, Fusion360, LaTeX
Core Knowledge: Algorithms, Data Structures, Computer Architecture, Systems Programming, Digital Logic, Cybersecurity, Thermodynamics, Dynamics, Statics, Calculus/Linear Algebra/Differential Equations
Languages: English, Spanish

WORK EXPERIENCE

UConn Department of Engineering <i>Teaching Assistant</i> <ul style="list-style-type: none">Discrete Systems – Head review sessions and office hours on logic, set theory, and combinatorics with a focus in Engineering contexts.AI4ALL – Instruct students in ethical use of AI regarding future technologies and advancement.	Storrs, CT Aug 2025 – Present
Connecticut Transportation Institute <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">Conduct long-term research on an in-use bridge using Arduino, Raspberry Pi, and scheduler programming.Design and maintain a remote IoT network with AWS backend and 6TiSCH local wireless communication.Contribute to publications on structural health monitoring and intelligent sensing systems.	Storrs, CT Jun 2025 – Aug 2025
UConn Quantitative Learning Center <i>Shift Supervisor</i> <ul style="list-style-type: none">Manage a team of 20 tutors distributing manpower to necessary tasks.Support undergraduate students in calculus, physics, and computer science through 1-on-1 and group sessions.Identify conceptual gaps and simplify complex topics to improve student comprehension.	Storrs, CT Sep 2024 – Present
Mathleague <i>Project Intern</i> <ul style="list-style-type: none">Produced and edited 36 math competition exams annually in collaboration with 20+ interns for 4,000+ participants.Tutored 30+ advanced AIME students with personalized feedback, life Q&A sessions, and problem walkthroughs.	Oviedo, FL Jul 2024 – Aug 2025
ShopRite <i>Courtesy Clerk</i> <ul style="list-style-type: none">Facilitated customer transactions efficiently and resolved complaints, maintaining a perfect record of service.	Enfield, CT Jul 2023 – Jul 2024

ACTIVITIES

Tau Beta Pi Honor Society <ul style="list-style-type: none">Engage with a national community of engineers focused on service, professional development, and the advancement of the engineering profession.	Mar 2024 – Present
UCONN Institute of Electrical and Electronics Engineers <ul style="list-style-type: none">Collaborate with senior engineering students to design and prototype electrical systems aimed at enhancing campus infrastructure involving microcontroller use.	Aug 2024 – Present
FROST Robotics <ul style="list-style-type: none">Co-designed and built a combat robot in a 5-person team using Fusion360 and ArduinoProgrammed microcontrollers to integrate gyroscope and motor encoders, enabling precise differential drive control.Improved rotational stability and maneuverability during competition scenarios.	Aug 2024 – Aug 2025

FOR PROJECTS – jpadilla.org