

# Nickolas Regas

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## EDUCATION

<b>Washington University in St. Louis</b>	St. Louis, MO
<i>B.S. in Electrical Engineering &amp; Computer Science, Minor in Finance</i>	<i>Aug. 2025 – May 2029</i>
<ul style="list-style-type: none"><li>GPA: 4.00/4.00</li><li>Relevant Coursework: Data Structures &amp; Algorithms, Differential Equations &amp; Dynamical Systems Modeling, Calculus I/II/III, Physics Mechanics &amp; Electricity and Magnetism, Computer-Aided Design</li><li>One of 10 first-year students selected for the McKelvey Engineering/Computer Science Fellowship</li></ul>	

## EXPERIENCE

<b>IT Specialist &amp; Consultant</b>	November 2024 – Present
<i>Patel Law Offices</i>	<i>Clark, NJ</i>
<ul style="list-style-type: none"><li>Manage and maintain 10+ WordPress websites on IONOS hosting, ensuring optimal performance, security, and runtime</li><li>Develop 20+ Zapier automation workflows linking Gmail, Mailchimp, Google Contacts, and LexHelper, improving efficiency by 40%</li><li>Refurbished and redeployed 5 outdated computers and servers, saving over \$1,000 in hardware costs</li><li>Enable 5+ legacy and x86-only applications on ARM-based laptops by implementing and optimizing emulation solutions, expanding software compatibility</li></ul>	
<b>Research Scholar</b>	Summer 2024
<i>The Governor's School of New Jersey Program in Engineering &amp; Technology</i>	<i>New Brunswick, NJ</i>
<ul style="list-style-type: none"><li>Developed and tested advanced pathfinding algorithms (A* &amp; RRT*) for unmanned aerial vehicles in collaboration with Lockheed Martin, identifying the most efficient navigation strategies</li><li>Selected to present at MIT's Undergraduate Research Technology Conference and publish paper in IEEE Proceedings</li><li>Competitively selected as one of 60 scholars from NJ for a rigorous, monthlong engineering &amp; technology program</li><li>Mastered challenging coursework in Theoretical Physics, Robotics, Microcontroller Programming (C++), and game design with Unity</li></ul>	
<b>Code Coach</b>	June 2025 - August 2025
<i>The Coder School</i>	<i>Berkeley Heights, NJ</i>
<ul style="list-style-type: none"><li>Taught programming and game logic to 12 Elementary school students with Minecraft Education</li><li>Led robotics sessions where students built and programmed robots using block-based Python coding</li><li>Empowered students to understand fundamental computing concepts through dynamic, engaging lessons</li></ul>	

## PROJECTS

<b>Stock Market Prediction Using AI-Based Analysis of News Headlines</b>   <i>Python, PyTorch, pandas, XGBoost</i>
<ul style="list-style-type: none"><li>Built and trained a neural network in Python using PyTorch to predict stock market movements from news headlines</li><li>Achieved 60% prediction accuracy, demonstrating the potential of NLP-driven financial forecasting</li><li>Applied Tokenization and text preprocessing to transform raw headlines into structured model inputs</li></ul>
<b>Analysis of A* and RRT* Pathfinding Algorithms for Drone Navigation</b>   <i>Python, PyGame, DJI Tello API</i>
<ul style="list-style-type: none"><li>Spearheaded research which analyzed A* vs. RRT* for drone navigation, finding A* 3-5x faster, while RRT* offered superior flight efficiency and accuracy</li><li>Conducted real-world drone trials with DJI Tello EDU, visualizing performance with Pygame across four diverse maze types</li><li>Translated virtual pathfinding to physical drone control, advancing autonomous UAV navigation and cost-effective drone deployment</li></ul>

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, MATLAB

**Frameworks:** WordPress, Zapier, Unity, Microsoft Office

**Developer Tools:** Git, Linux, GitHub Pages, VS Code, Jupyter Notebooks

**Libraries:** Sci-Kit Learn, XGBoost, PyTorch, pandas, NumPy, Matplotlib