Pavan Senthil

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Orlando, FL

EDUCATION

Bachelor of Science in Electrical Engineering   05/2025
Bachelor of Science in Biomedical Sciences (Neuroscience track)
University of Central Florida – Orlando, FL
- Medicine Engineering Double Degree (MEDD) Cohort
- Burnett Honors Scholar
- National Merit Scholar/Benacquisto Award Recipient
- GPA: 4.0 (President's List)

EXPERIENCE

Research Student Scholar   01/2022 – Present
Limbitless Solutions – Orlando, FL
- Built on knowledge of a range of topics such as fMRI prosthetic studies, phantom limb and neuroplasticity, and play-based rehabilitation by completing 45 weekly article summaries.
- Created a working prototype for a biomimicry-inspired robotic bird claw project using Fusion 360 to redesign and print components and Arduino to test function.
- Attended the Mayo Clinic 2022 Neurodivergence Convergence to hear from speakers on a range of neuroscience related topics.

Research Director   01/2022 – Present
IEEE UCF – Orlando, FL
- Collaborated with project leads from AIAA, ASME, ARC, and AI@UCF to outline project specifications for a multi-drone LED light show and design a prototype version for proof of concept.
- Researched and documented information regarding the components of a drone show, including flight controllers, ground control stations, simulation software, and drone communication and telemetry architecture.
- Developed and advertised applications for IEEE project leads for constructing and testing and prototyping phase of the multi-drone LED light show.

SKILLS

Research
- Conducting independent research and writing literature reviews
- Presenting research to a professional panel
- CITI Training:
  - Human Subjects Research Group 1 and 2, Biomedical Responsible Conduct of Research, Communicating Research Findings, Conflict of Interest

Computer/Technical
- C/Arduino
- HTML/CSS
- Microsoft Office
- Soldering
- Beginner Fusion 360 experience
- 3D printing

Language
- Limited working proficiency in Spanish