

Mahmoud Yusuf

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EDUCATION

Florida State University

Bachelor of Science in Cell and Molecular Neuroscience; Minor in Chemistry

Tallahassee, FL

Aug. 2024 – May 2028

EXPERIENCE

Tampa General Hospital

Undergraduate Clinical Researcher, Neurosurgery, Brain and Spine

Apr. 2026 – Present

Tampa, FL

- Organize clinical research materials for neurosurgery projects through literature review, chart review preparation, and outcome-focused data tracking.
- Synthesize clinical findings into abstract and manuscript materials for mentor review across cranial, functional, and spine topics.

FAMU College of Pharmacy and Pharmaceutical Sciences

Undergraduate Research Assistant, Neuropharmacology

Dec. 2025 – May 2026

Tallahassee, FL

- Investigate manganese-induced neurotoxicity and Parkinson's disease-like neurodegeneration in the Lee Laboratory, Institute of Public Health.
- Perform BCA protein quantification and Western blot preparation to analyze protein expression and cellular response.

Young Engineers

Lead STEM Instructor

May 2026 – July 2026

Tallahassee, FL

- Led advanced instruction in robotics, CAD, circuitry, Python, and biomedical engineering; co-developed a 3D-printed brain using Arduino sensors to model the five senses.

Florida State University, Department of Biological Science

Course Assistant

Aug. 2025 – Dec. 2025

Tallahassee, FL

- Facilitated active-learning sessions for BSC 2011, guiding students through genetics, metabolic regulation, transcriptional control, and evolutionary biology.

USF Health Morsani College of Medicine

Summer Intern

May 2025 – July 2025

Tampa, FL

- Selected for an intensive six-week, full-time, paid clinical and academic enrichment program for students pursuing health professions careers.
- Completed clinical seminars, emergency medicine simulations, cadaver-based anatomy instruction, and physician-guided exposure through Morsani and Tampa General Hospital.

Big Bend Hospice

Inpatient Hospice Care Volunteer

Jan. 2026 – Present

Tallahassee, FL

- Provide bedside companionship and comfort support to hospice patients while observing interdisciplinary palliative care centered on dignity, symptom management, and family communication.

PROJECTS

Multimodal Prediction of Shunt Responsiveness in Idiopathic Normal Pressure Hydrocephalus

May 2026 – Present

- Developed a narrative review examining predictors of shunt responsiveness and framing iNPH patient selection as a multimodal risk-stratification problem.
- Selected for oral presentation at UC San Diego's 2026 Summer Research Conference; poster presentation at Mississippi State University's Undergraduate Research Symposium.

SKILLS

Laboratory: Western Blotting, BCA Protein Assay, PCR Genotyping, RNA Isolation, Immunofluorescence Microscopy

Research/Data: Literature Review, Clinical Data Organization, SPSS, R

Clinical: HIPAA, Clinical Research Compliance, Suturing, Cadaver Dissection

Technical: TypeScript, React.js, Three.js, Python, SolidWorks CAD, Arduino, Raspberry Pi