

Scott Meeson

scottdmeesonjr@gmail.com | linkedin.com/in/scottmeesonjr

Skills

CAD: Siemens NX, Fusion360, Autodesk Inventor

Analysis: MATLAB, Python, Microsoft Excel, LABView

Technical: ProtoTRAK, OpenRocket, OpenMotor, Machining (lathes, mills), CNC machining (2 axis mill and lathe), Laser cutting (Fiber & CO₂) (LightBurn), Waterjet cutting (ProtoMAX), Soldering

Professional: Leadership, Teamwork, Problem-solving, Communication, Project management, Time management

Experience

Machinist, Florida Tech – Melbourne, FL

September 2025 – Present

- Operate and perform maintenance on metalworking machines, including bandsaws, lathes, mills, and CNCs.
- Instructed students on safe and effective use of shop tools and assisted with certifications for lathes and mills.
- Solve technical problems with machines including creating brackets for shop vacuums to keep machines clean.
- Maintain shop organization and safety through daily cleaning and oversight.

Projects

Student-Led Solid Rocket Motor Development

Machinist & Propulsion Manufacturing | Florida Tech

- Lead machining for student-designed solid rocket motors (2"-8"), fabricating nozzles, liners, and forward closures.
- Designed nozzles in Fusion360 and optimized motor performance utilizing OpenMotor simulations (mass flux, chamber pressures) resulting in a 50,000+ ft altitude increase
- Developed a phenolic liner splicing technique to enable 48" liners beyond lathe capacity
- Supported static fires and a successful 10,000-ft flight that broke local SRA record.

Discord Bot Development - Society of Math Students

github.com/scottmeesonjr

- Designed and deployed a Discord bot that automatically assigned roles to society members.
- Built and maintained the bot in Python 3, updated via GitHub, and hosted via Replit.
- Streamlined member management and improved member onboarding efficiency.

Education

Florida Institute of Technology (Florida Tech) – BS in Aerospace Engineering

Aug 2024 - PRESENT

GPA: 3.82 / 4.0

Relevant Coursework: Differential Equations, Physics II, Fluid Mechanics + Lab, Aerospace Fundamentals, Intro to Python

Awards: Dean's List (FA24, SP25, FA25); 2nd Place: FL Tech Integral Bee (SP25); Simiode SCUDEM 2025: Meritorious; MAA/FTYCMA 2026 Best Poster Award; 2026 Ospreys Mathematics Conference Best Poster Award

Honor Societies: Gamma Sigma Alpha, Tau Beta Pi, Phi Kappa Phi

Webster Thomas High School - High School Diploma

Sept 2020 - June 2024

Extracurriculars

Alpha Tau Omega Fraternity - Scholarship Chair

Sept 2025 - PRESENT

- Conducted regular academic check-ins and weekly meetings for members on academic probation to help improve academics. Developed and implemented the Chapter's first Scholarship Plan, establishing a system to enhance academic success for all members. Increased the Chapter's semesterly GPA from a 2.98 (SP25) to a 3.26 (FA25) and 3.23 (SP26).

Society of Math Students - Secretary

Sept 2025 - PRESENT

- Recorded meeting minutes, coordinated room reservations and event logistics, managed official announcements on the university's Engage platform, and maintained the club's Google Calendar. Helped fundraise \$600+ for Veterans and the AHA.

Panther Rocket Lab - Propulsion Team Member and Machinist; AIAA - Member (Sept 2025)