

Logan Arnold

(832) 490-7361 | lmarnold@tamu.edu | www.linkedin.com/in/logan-arnold-26730528a

EDUCATION

Texas A&M University, Mays Business School <i>Master of Business Administration</i>	College Station, TX August 2027
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Texas A&M University <i>Bachelor of Science in Mechanical Engineering</i> GPA: 3.92/4.0 Honors: Summa Cum Laude	College Station, TX May 2026
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EXPERIENCE

Texas A&M Material Sciences and Engineering <i>Automation Research Intern</i>	College Station, TX June 2026 – July 2026
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- Enhanced a vertical linear actuator used to move testing crucibles within a furnace tube, improving crucible accessibility and preventing interference during travel
- Engineered an extensometer's clamping mechanism, improving reliability of sample compression measurements
- Developed Solidworks models and drawings to validate the fit and constraints of assembly parts, while accounting for production costs and tolerances

NOVA Metrology <i>Senior Design Capstone, Thermal Control for Precision Metrology Tool</i>	College Station, TX August 2025 – May 2026
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- Designed and implemented a thermal control system and testing chamber model for a semiconductor wafer metrology tool, using RTD sensors and a PI controller to maintain a uniform internal temperature of 27 ± 0.1 °C.
- Created a new model with a temperature rise time of 25 minutes, compared to the existing model's 24 hour rise time, resulting in a 50 times faster replicability than the original model

Hunton Trane <i>Sales Engineering Intern, Estimating Team</i>	Houston, TX June 2025 – August 2025
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- Analyzed HVAC schedules and PE-approved specifications to develop accurate scopes and bid proposals, collaborating with engineers and contractors to clarify critical project requirements
- Evaluated Trane product specifications against customer performance and efficiency standards, developing alternative proposals when requirements were not met to provide compliant solutions for customers' needs

LEADERSHIP & INVOLVEMENT

Texas A&M Club Swim Team <i>Vice President</i>	College Station, TX May 2025 – May 2026
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- Worked with REC Sports and aquatics department to communicate necessary equipment and protocols required to host the largest college club swim meet in the southwest region, including 250 athletes and 5 swim officials
- Coordinated monthly meetings with REC Sports to strengthen operational planning, contributing to record club revenue and a 10% increase in travel participation
- Named "Outstanding Sport Club Leader" by REC Sports Clubs for providing proactive and clear communication with advisors, as well as filling the role of Treasurer after the position became vacant mid-season

Texas A&M Club Swim Team <i>Meet Coordinator</i>	College Station, TX May 2024 – May 2025
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- Managed over 500 meet entries and lane assignments for events hosted at Texas A&M, creating and submitting results reports for verification from College Club Swimming (the club's governing board)
- Coordinated travel and meet logistics for 4 meets outside of College Station, developing and submitting trip requests to REC Sports for approval

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python Programming Language, SolidWorks Design Software, Excel Spreadsheets

Attributes: Attention to detail, organizational skills, analytical and problem-solving skills, and team coordination

Activities: REC Sports Swim Club, Tau Beta Pi, Phi Kappa Phi, American Society of Mechanical Engineers