

# TEAGAN BECKER

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Honors mechanical engineering junior (3.77 GPA) with hands-on AutoCAD and SolidWorks experience and a strong interest in MEP design and building systems. Detail-oriented, quick learner, and clear communicator. Miami-based; available part time during the school year and full time for summer 2027.

## EDUCATION

**Florida International University** Miami, FL  
*B.S. Mechanical Engineering, Minor in Mathematics* Expected April 2028  
• Honors College | GPA: **3.77** | Society of Women Engineers (SWE), ASHRAE (Student Member)

**Lake Sumter State College** — Dual Enrollment during high school; Phi Theta Kappa Honor Society 2023 – 2025

## PROJECTS

**Mechanical Clock — CAD Design & Engineering Drawings** Spring 2026  
*Project Lead | Intro CAD for Mechanical Engineers, Team Project — Florida International University* Miami, FL  
• Led design of a working mechanical clock in SolidWorks (gear train, escapement, hands, and frame), calculating gear ratios and center distances to achieve accurate timekeeping.  
• Delivered CAD layout, BOM, and dimensioned 2D engineering drawings with tolerance and material callouts.  
• Resolved interference/clearance issues through iterative design revisions until the assembly ran.

## SKILLS

**Technical:** AutoCAD, SolidWorks (3D modeling, assemblies, drawings, BOMs), MS Office Suite (Word, Excel, Outlook, PowerPoint, Teams), MATLAB, Python (beginner)

**Engineering:** Engineering drawings and drafting, design calculations, 3D modeling, design revisions, technical documentation

**Professional:** Communication, collaboration, team leadership, mentorship and coaching, fast learner, attention to detail

## RELEVANT COURSEWORK

**Engineering:** AutoCAD, Statics, Materials Science, Analysis of Engineering Systems

**Math & Science:** Calculus I–III, Differential Equations, Discrete Math, Physics with Calculus I & II, General Chemistry I

## EXPERIENCE

**Florida International University** Miami, FL  
*STEM Institute Learning Assistant, Differential Equations* January 2026 – May 2026  
• Led weekly problem-solving sessions for 40+ engineering students in a differential equations course.  
• Broke advanced concepts into step-by-step methods to help students prepare for exams.  
• Identified recurring conceptual gaps and partnered with faculty to redesign review material around them.

**Self-Employed** Virtual  
*Private Mathematics Tutor* October 2022 – Present  
• Tutor algebra, pre-calculus, and Calculus I–II for 3+ students weekly; 4 years of experience explaining technical material.

**Plato's Closet** Clermont, FL  
*Shift & Training Lead* August 2023 – July 2025  
• Supervised shifts and trained new employees on operational standards, workflow, and safety compliance.

## LEADERSHIP EXPERIENCE

**Dance Marathon at UF** Clermont, FL  
*Student Lead & Sole Organizer* August 2024 – May 2025  
• Raised over \$8,000 for pediatric healthcare through self-directed campaigns with staged deadlines.  
• Coordinated sponsors, vendors, logistics, and volunteer schedules with outside stakeholders.

**Key Club International** Clermont, FL  
*President / Vice-President / Secretary* August 2022 – May 2025  
• Grew to and led 5 officers and 82 members in organizing community service events for local and international causes.  
• Planned and executed monthly service projects, increasing member participation by 65%.