

John Cotelo

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EDUCATION

University of Florida | *Machen Florida Opportunity Scholar*

GPA 3.52

Bachelor of Science in Mechanical Engineering

Expected May 2027

Relevant Coursework: Mechanics of Materials Lab, Thermodynamics, Design and Manufacturing Lab, Dynamics, Fluid Mechanics, Mechanical Design, Heat Transfer, Controls Systems, Vibrations

EXPERIENCE

UF Bio/Materials Tribology Lab | *Undergraduate Research Assistant*

May 2026 – Present

- Designed, fabricated, and installed a custom camera mount and lighting assembly to improve imaging consistency
- Integrated automated video recording into existing Python GUI, synchronizing video with experiment execution.
- Repaired and operated a compression molding system to fabricate polyethylene specimens for tribology testing

Lutron Electronics | *Design and Development Mechanical Engineer Intern*

May 2025 – August 2025

- Designed, prototyped, and validated a structural enclosure for the next generation of downlights, D2 Remodeler
- Optimized enclosure's thermal performance using FlexLogger, achieving **20% reduction** in operating temperature
- Engineered custom tools and bespoke install process to streamline installation and reduce in-field error
- Engineered a manufacturing tool rework that increased production capacity by **4x** while reducing manual handling

Computer Refurbishment Entrepreneur | *Founder and Operator*

June 2023 – Present

- Built a small scale refurbishment business, restoring over **40** computers to be reintroduced into the market
- Diagnosed hardware and software issues, implementing testing protocols to ensure continued system performance
- Translated complex technical specifications into accessible solutions to provide tailored hardware solutions

Discount Cabinets | *Design and Sales Associate*

May 2023 – July 2023

- Drafted CAD models for remodel projects, using precise measurements and tolerances to ensure proper installation
- Contributed to over **\$300,000 in revenue** between kitchen and bathroom sales, assisting over 40 clients
- Performed post-installation evaluations to confirm design specifications and ensure system functionality

Discount Cabinets | *Office and Operations Coordinator*

May 2022 – July 2022

- Coordinated communication between field installers, vendors, and clients, resolving operational challenges
- Oversaw inbound and outbound logistics operations, optimizing workflow to support timely project completion

PROJECTS

Formula SAE - Gator Motorsports | *Suspension Team Member*

August 2025 - Present

- Designed, manufactured, tested, and installed various parts for a formula-style car to be raced in competition
- Fabricated carbon fiber test panels used to evaluate the structural performance of the vehicle's unibody chassis

Differential Model | *Group Project*

- Lead a student team to design a functional differential and coil spring suspension assembly using SolidWorks CAD, applying mechanical design principles, iterative design, and vendor parts to ensure functionality

Automotive Maintenance & Repair | *Self-Directed*

- Diagnosed mechanical failures and performed repairs on engine gaskets, suspension, and related systems
- Carried out preventive maintenance and part restoration to maintain vehicle performance and extend service life

INVOLVEMENT

Society of Hispanic Professional Engineers | *SHPEducation Advisor*

August 2025 – Present

- Organized and led efforts to provide support over 100 other members in the organization regarding coursework, career planning, and professional growth, increasing engagement and academic success

Society of Hispanic Professional Engineers | *Mentor- Mentorshpe Program*

August 2025 – Present

- Guided two underclassmen through academic, professional, and personal challenges, translating experience into actionable advice that builds confidence and long-term growth

SKILLS

Technical: Creo, SolidWorks, Manual Mill & Lathe, 3D Printing, Metal Fabrication, GD&T, Excel, Java, Python, LabVIEW, NI FlexLogger, AutoCAD, Arduino, Microsoft Office, Finite Element Analysis

Languages: English, Spanish (Intermediate)