

Teo Brown

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EDUCATION

University of Georgia

Athens, GA

Bachelor of Science in Mechanical Engineering, GPA: 3.96/4.00, 78 credit hours

Expected May 2029

ENGINEERING EXPERIENCE

Undergraduate Researcher

Aug. 2026 – Present

University of Georgia, Dr. Hongyue Sun

Athens, GA

- Run a physics-based simulation in MuJoCo to model the max torque exerted on the spherical gearbox
- Print tensile bars in PLA, carbon fiber nylon and Formlabs Rigid 4000 resin to gather stress-strain data
- Run FEA in SolidWorks Simulation on the monopole and cross spherical gears using the tensile test data
- Developed a SolidWorks script to generate monopole and cross spherical gears from the ABENICS IEEE paper

Engineering Intern

Jan. 2025 – May 2025

AEC Engineering

Roswell, GA

- Cut design review time 20% for 5 to 7 engineers by standardizing CAD file organization and revision control
- Took 3+ grading and drainage plan sets to client approval, drafting in Civil 3D and tracking each revision
- Drafted 3+ site and utility layouts in Civil 3D and AutoCAD for the firm's civil projects

Engineering Intern

Aug. 2024 – Dec. 2024

DMD Engineering / PE Structures and Associates

Norcross, GA

- Delivered 15+ AutoCAD drawing sets for civil and structural projects, checking each against local code
- Kept drawing sets true to the field by measuring existing conditions on 3+ site visits
- Built 10+ bid sheets in Bluebeam Revu so the firm could price civil and structural jobs before bidding

ENGINEERING PROJECTS

IEEE Micromouse, Mechanical Team Lead | *Fusion 360, 3D Printing, KiCad*

Aug. 2025 – Present

- Choose the drivetrain by testing 3 variables: contact ratio, gear material and heat transfer between materials
- Replaced the PCB skid plate's friction slider with a rolling ball after iterating through 3 printed versions
- Designed 5+ key parts in Fusion 360 and worked with the electrical team to create the PCB in KiCad
- Built a 3 person mechanical team from 80+ applicants by scoring each interview in a shared rubric

Robotic Arm Teleoperation | *DYNAMIXEL, 3D Printing, Joint Mapping*

Jan. 2026 – May 2026

- 3D printed the open-source GELLO arm, a scaled UR5 replica, then designed its servo mounts and cable routing
- Integrated 7 DYNAMIXEL servos, setting IDs 1 to 7 from base to gripper in DYNAMIXEL Wizard
- Mapped GELLO's joints to the lab's UR5 by calibrating joint offsets, so moving it by hand drives the robot

ADDITIONAL EXPERIENCE

Co-founder

Aug. 2026 – Present

Frameworkright Consulting LLC, frameworkrightconsulting.com

Athens, GA

- Set up Claude for 2 client firms by tailoring a shared base package of skills and MCP connectors to each
- Scope every automation through firm and group interviews, then train staff with 4 group training videos

Senior Reviewer

Dec. 2025 – Present

Handshake AI Solutions

Remote

- Review LLM training tasks for GIMP, Krita and Inkscape from 1,000+ contributors, editing prompts and rubrics
- Grade LLM outputs against each task's rubric after passing an 18 case grading qualification

TECHNICAL SKILLS

Design and Drafting: Fusion 360, SolidWorks, Inventor, AutoCAD, Civil 3D, Bluebeam Revu, KiCad, GD&T

Fabrication: TIG welding, CNC machining, Formlabs resin printing, 3D printing

Robotics: MuJoCo, DYNAMIXEL servos, joint mapping to a UR5, teleoperation

Engineering: FEA, hand calculations, tolerance stack-ups, technical writing, MATLAB, Python, Microsoft Office

Coursework and Certifications: Statics, Mechanics of Materials, SolidWorks CSWA, OSHA 10-Hour Safety