

Calixte Viollet

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EDUCATION

The University of Texas at Austin

Bachelor of Science
Mechanical Engineering
Overall GPA: 3.85

LEADERSHIP EXPERIENCE AND ACTIVITIES

LHR Formula SAE – Combustion Powertrain Engineer; Austin, TX

Sep 2025 – Present

- Designing aluminum and titanium drivetrain components to withstand 680Nm of torque, maximizing rigidity and simultaneously minimizing footprint, inertial moment and mass
- Developed the lightest drivetrain package produced by the team by nearly 5 kg, validating designs with structural FEA and peer review

UT Sailing Windsurf Coach; Austin, TX

Sep 2025 – Present

- Introduced windsurfing to the Sailing team at UT Austin
- Instructing 4-5 people on sailing and windsurfing theory to put to use on the water
- Providing competent in-water training for students on 120-130L boards with 5.5-7.2m² wing sizes in 12-20knt wind conditions

Project PL8 – Powertrain Engineer; Austin TX

Sep 2024 – May 2025

- Developed subframe to support V8 with transaxle powertrain on experimental basalt-fiber monocoque chassis
- Designed key structural components and performance parts to maximize power output and efficiency

Petroleum Graduate Student Association – Freshman Representative; Austin, TX

Sep 2024 – May 2025

- Recruited undergraduate, especially freshman, to increase undergraduate population in PGSA
- Coordinated weekly information in the form of emails and group chat messages to update PGSA members on organization events

EXPERIENCE

Jiffy Lube – General Service Technician; Cedar Park, TX

Jun 2025 – Present

- Facilitating workspace flow in an active and busy oil and fluid exchange shop, while presenting excellent customer service
- Operating high pressure machinery and tools, such as air compressors, air tools, hydraulic and air lifts, etc.

AutoZone – Customer Service Associate; Waltham, MA

Feb 2023 – Aug 2024

- Managed commercial accounts dealing with regular \$1K to \$10K transactions
- Performed mileage-based vehicle maintenance on customer vehicles daily including 300-1000 CCA battery swaps, fluid changes, ~60W bulb replacements and more

Independent Language Tutor; Lexington, MA

Sep 2021 – May 2024

- Organized and conducted individual tutoring sessions for 23 students, ranging from middle school to college students, in French and English
- Enhanced comprehension and literary ability of students in French and English starting at A1- up to C1-levels of proficiency (utilizing CEFR framework)

PROJECTS

Lead Engineer and Project Head; Lexington, MA

May 2023 – Jun 2024

- Designed a 3000W electric go-kart for recreational and personal use
- Coordinated a team of 5 talented students including programmers, developers, and fabricators

MIT BioTech in Action – Participant; Cambridge, MA

Oct 2022 – Dec 2022

- Analyzed neurological diseases and rDNA-based treatments
- Replicated 2 rDNA-based treatments by creating plasmids and injecting into host cells

ADDITIONAL INFORMATION

Computer Skills: CAD/Simulation, Autodesk, SolidWorks, Ansys FEA; VS Code, Java, Python, AI integration

Languages: Fluent in French and English, Basic Knowledge in Spanish