

MATHIS VIGNEAU

MECHANICAL ENGINEERING

[Portfolio](#)

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PROFILE

Outgoing, adaptable, and solutions-oriented individual with strong leadership abilities. Thrives in diverse teams and excels in high-pressure, fast-paced environments, staying organized, calm, and focused on delivering results.

EXPERIENCES

Mechanical Engineering Intern, Binnies Hong Kong Summer 2025

- Assisted in designing pump system control diagrams and selecting pump sets with supporting cost estimates for major WSD projects.
- Converted complex mechanical schematics into clear presentation figures and organized technical documentation.
- Supported MVAC, plumbing, drainage, and fire services design, producing accurate material and labor estimates.

Cornell ChemE Car Project Team Feb 2024 - Present

- Designed and prototyped mechanical components in CAD for reliability and manufacturability.
- Collaborated with chemical and electrical subteams to enhance vehicle safety and performance.
- Supported fabrication, assembly, and testing of a chemically powered autonomous vehicle.

Supervisor Sales and Tech Support, Cornell Store Jan 2024 - Present

- Supervise sales team
- Advise clients on IT hardware, software, and engineering tools.
- Provided hands-on troubleshooting
- Improve customer experience through technical guidance.

EDUCATION

Cornell University

Bachelor in Mechanical Engineering
(Expected May 2027)

SKILLS

Design & CAD Modeling:

SolidWorks, AutoCAD, Fusion 360

Programming & Analysis:

MATLAB, Ansys Granta Edupack, Ansys Mechanical

Mechanical Skills:

Thermodynamics & energy systems, structural analysis, rapid prototyping

LANGUAGES

French - native language

English - fluent

Spanish - intermediate

Dutch - intermediate

ENGAGEMENT

Cru, Community Group Leader
Aug 2024 – Present

Cornell Shakespeare, Actor
Sep 2024 – Present

Author of "[Why Engineering Matters](#)" Published in 2022