

# THOMAS VANDEN BERGHE

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## EDUCATION

### Columbia University in the City of New York

Master of Science in Mechanical Engineering (Concentration Robotics & Control)

GPA: 4.17/4.0 | Relevant courses: Robotics Studio, Robot Learning, Prototyping for Aerospace, Combustion, Advanced Heat Transfer

New York City, NY

Sep 2025 – Dec 2026

### KU Leuven

Bachelor of Science in Mechanical Engineering, Minor in Electrical Engineering

Grade: Cum Laude

Leuven, BE

Jun 2025

## PROJECTS & EXTRACURRICULAR INVOLVEMENT

### Columbia Autonomous Racing Team

Founding Member, Simulation Team

New York, NY

Sep 2025 – Present

- Co-founded the team and contributed to defining its organizational structure and early development roadmap
- Created early technical pitches and high-level concept discussions presented to the Columbia board during approval process

### Robotics Studio Project

Graduate Hands-on Robotics Design and Prototyping Course

New York, NY

Sep 2025 – Dec 2025

- Designed and built a quadruped robot using a Raspberry Pi, serial bus servomotors, and custom 3D-printed components
- Achieved stable walking at 29 cm/s while integrating onboard Bluetooth audio playback, earning an A+ for top performance

### LAB Motion Systems x KU Leuven

Industry-Collaborative Robotics Research Project

Leuven, BE

Sep 2024 – May 2025

- Designed a compact R-Z tip-tilt stage for semiconductor wafer inspection with nanometer-scale positioning accuracy
- Built the complete mechanical architecture in CAD, including rotary stage, hexapod mechanism, air bearings, and housings
- Selected and integrated high-precision actuation systems, including a frameless torque motor and piezoelectric actuators
- Validated system performance through stiffness, dynamics, and error-budget calculations, and estimated manufacturing cost

### BRIKS

Investor

Leuven, BE

Oct 2024 – Present

- BRIKS is Belgium's leading investment club for students engaged in value investing, with around €40,000 AUM
- Analysed companies and pitched stocks to other members, improving finance knowledge as well as DCF modelling
- Participated in workshops and events with firms including Goldman Sachs, BCG, Bain & Company, and McKinsey & Co

## WORK EXPERIENCE

### Bain & Company

Associate Consultant Intern (Received offer for 6-week internship)

Brussels, BE

Jan 2026

- Invited to interview and selected to join Bain's competitive one-week Associate Consultant Internship Program
- Analyzed corporate decarbonization strategies across multiple industries by mapping historical investment trajectories in collaboration with Bain consultants, contributing to structured client-facing analytical outputs

### ROOV

Fintech/Startup Intern

Gent, BE

Jul 2025 – Aug 2025

- Analysed historic monthly financials and billings to develop an adjustable Excel forecasting model, incorporating automated actuals vs forecast variance checks, highlighting deltas in key values, and reduced the CEO's monthly review time by 40%
- Created a tool to detect billing errors and improve accuracy, uncovering over €1K in unissued bills during the first test
- Assisted the CEO with preparing presentations and exploring partnership strategies with one of Belgium's largest banks

### Winona Camps

Counselor & Red Cross Lifeguard

Bridgton, ME

Summer 2023 – 2024

## RELEVANT PARTICIPATIONS & AWARDS

### BAEF Fellowship

Fellow

Brussels, BE

Jun 2025 – Present

- Awarded the highly competitive BAEF Fellowship to pursue graduate studies in the U.S., recognizing academic excellence
- Secured \$72,000 for the first year and \$40,000 for the second year in financial support

### LCC x McKinsey final case – Winner

Participant & Winner

Leuven, BE

Mar 2025

- Competed in Flanders' largest case competition with 200+ teams in the qualification round
- Reached the finals as one of 50 teams and won the McKinsey & Co. case on green ammonia with a strategic solution

## ADDITIONAL INFORMATION

**Skills:** Python, MATLAB, Fusion 360, Solid Edge, 3D Printing, Microsoft Excel, Capital IQ, Financial Modeling (DCF & Multiples)

**Languages:** Dutch (Native Proficiency), French (Professional Proficiency)

**Interests:** Jazz music & vinyl collecting, Formula 1, Poker, Amateur investing, Tennis, Sailing, Greek History