

Morgan Johnson Quamina

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EDUCATION

Massachusetts Institute of Technology

Bachelor of Science: Mechanical Engineering focused on Design Computation

Cambridge, MA

Class of 2026

Ross School

East Hampton, NY

Class of 2022

- GPA: 3.82/4.0 (unweighted), Class rank: 5
- SAT: 800 math, 700 reading/writing, ACT: 35

Awards: Ross School Board (2022), AP Scholar with Distinction (2022), Oliver Excellence (2022)

WORK EXPERIENCE

Meta

Seattle, WA

Technical Program Manager Intern - Quality and Hardware Product Engineering

May 2025 – Aug 2025

- Led comprehensive cost analysis and proof-of-concept evaluation for transitioning from traditional printing to on-demand high-fidelity printing, optimizing SKU management and reducing waste.
- Managed cross-functional collaboration with APAC TPMs, printing suppliers, and internal departments (DFX, CAPEX) to align on print testing progress and next steps.
- Spearheaded CMF development for a Meta partnership, coordinating with industrial design, textiles, and multiple vendors to meet product launch milestones.

UCL EPICentre - Tiziana Rossetto

London, GB

Visiting Researcher

Jun 2024 – Aug 2024

- Worked under the supervision of Prof. Tiziana Rossetto to complete stage 3 of RESCOOL, a project aiming to assess the vulnerability of coastal Sri Lankan buildings susceptible to tsunamis.
- Using GIS software and Google Earth to identify building-specific information necessary to apply the appropriate fragility functions and ascertain the building's vulnerability.

LEADERSHIP AND ACTIVITIES

2.009 - Product Engineering Process Capstone Class

Cambridge, MA

Product Design Lead/Team Mediator

Sep 2025 – Dec 2025

- Owned end-to-end product definition for a capstone mechanical system, translating functional requirements from 15 engineers across subsystems into a single unified outer-form design.
- Drove design trade-off decisions balancing manufacturability, component fit, and aesthetic goals, ensuring subsystem integration didn't compromise the product's core technical requirements.

MIT Consulting Group

Cambridge, MA

Former Executive Member - Internal Consultant Development Director & Consultant

Feb 2023 – May 2026

- Developed a rigorous curriculum made to teach new members about consulting, give career advice, and improve the skills necessary to succeed in the current job market.
- Developed a \$7,000 market strategy for a Harvard Innovation Lab startup to enter the competitive ESG consulting market, leveraging market research and competitive analysis techniques.

Alpha Phi Sorority - Zeta Phi Chapter

Boston, MA

Executive Member - Vice President of Recruitment

Nov 2024 – Jan 2026

- Architect and executor of the Recruitment Plan, which entails organizing sub-committees and executing Formal Recruitment for over 300 potential new members, yielding over 90% retention.
- Led the competitive analysis process of Primary Recruitment, including, but not limited to, reading applications, creating groups based on interests, score data analysis using Excel, and bias correction.

Decarbonization Pathways for MIT's Campus

Cambridge, MA

Sustainable Finance Lead/ Survey Design Lead

Feb 2024 – Jul 2024

- Researched and evaluated the financial and social implications of decarbonization strategies for MIT's climate goals, focusing on community engagement, cost-effectiveness, and inaction risk.
- Collaborated with interdisciplinary teams to analyze policy recommendations and stakeholder engagement strategies, presenting findings to MIT's Climate Nucleus to inform decision-making.

ADDITIONAL

Technical: MS Suite, Adobe Suite, Rhino/Grasshopper, Solidworks, MATLAB, Python, Rapid Prototyping (CNC, etc.)

Associations: Alpha Phi, Black Students Union, NSBE, Summer Science Program - Astrophysics (SSP), Oliver Scholars