MATHIS SEIDL

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EDUCATION

BOSTON UNIVERSITY — **Boston, MA**
B.S. in Mechanical Engineering, graduating in May 2027 — 2023 – 2027

- **GPA:** 3.55/4.00
- **Concentration:** Robotics
- **Relevant Courses:** Precision Machine Design, Automation and Manufacturing Methods, Dynamics and Controls

MOURATOGLOU INTERNATIONAL SCHOOL — **Nice, France**
US High School Diploma & AP Curriculum — 2019 – 2023

- GPA: 4.15/4.00

WORK EXPERIENCE

AMAZON — **Erfurt, Germany**
Operations Engineer Intern — Summer 2026

- Owned the training program end-to-end for the ERF1 rollout of Vulcan Pick/Stow, the 2026 Robot of the Year, building the workforce plan, coordinating training logistics, and navigating German safety/compliance requirements
- Coded a website from scratch into the primary knowledge hub for 70+ technicians and engineers
- Built a project and shift-handover tracker for Senior Technicians to log project progress and pass tasks between shifts
- Ran SQL queries to trace equipment performance drops back to their root causes, and performed Permit to Work reviews for contractors on high-risk operations

SIEMENS — **Munich, Germany**
Automation Engineer Intern — Summer 2025

- Programmed a S7-1500 PLC using ladder logic to control a robotic production line
- Developed a digital twin model of that robotic system using CAD and Tecnomatix Process Simulate
- Implemented custom kinematics for virtual robot arms to accurately mirror physical motion
- Connected to the Siemens AI Copilot, allowed for a human-friendly interface with voice commands

ENERGY CONSULTING SOUTH BAVARIA — **Munich, Germany**
Data Management Intern — Summer 2024

- Organized an Excel database for 1,000+ new customer invoices and calculated their individual subsidies
- Drafted grant applications to secure government funding for renewable energy projects

PROJECTS (find more inspiring projects on my portfolio)

Warehouse Robot — **Boston, MA**
Intro to Robotics — Spring 2026

- Built a 6 DOF robot manipulator with gripper and force feedback to autonomously sort 5-10cm packages by size
- Used an ESP32 and C++ for logic, and simulated forward- and inverse kinematics, and joint space on MATLAB

TECHNICAL SKILLS

- **Programming:** Python, C++, MATLAB, HTML, SQL, Siemens PLC
- **Simulation:** SolidWorks, Abaqus, COMSOL, TIA Portal, Siemens Process Simulate
- **Manufacturing:** CNC Machines, CAM, Machining, Laser Cutting, 3D Printing, Technical Drawings (2D & 3D)

ADDITIONAL INFORMATION

- **Certificates:** Cloud Practitioner – Foundational (AWS) *in progress*, AI Infrastructure (NVIDIA)
- **Volunteering:** MIT Ncaa Division III Men's Tennis Volunteer Assistant Coach, BU Resident Assistant
- **Interests:** Tennis (World Rank #976 in U18, 11.96 UTR), Skiing, Running
- **Languages:** English (native), German (native), French (proficient)