

Brady Klein

Current DoD Secret Clearance

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Cambridge, MA 02139

EDUCATION

- **Massachusetts Institute of Technology** Cambridge, MA
Bachelors in Artificial Intelligence and Decision Making; GPA: 4.8/5.0 Aug 2020 - May 2024
 - **Coursework Topics:** Artificial Intelligence, Machine Learning, Robotics, Computer Vision, System Modeling & Control Design, Computational Cognitive Science, Algorithms, Linear Algebra, Probability and Statistics, Neuroscience
 - **Master of Engineering (MEng) program** (September 2024 – May 2025)

SKILLS SUMMARY

- **Languages:** Python, Rust, TypeScript, SQL, Java, C, WebPPL, LaTeX
- **Tools:** GIT, PyTorch, Docker, Atlassian Suite (Jira, Confluence, Bitbucket), ROS, Ubuntu Linux, GStreamer, MAVLink, Azure DevOps, AWS, WSL, Visual Studio Code (VSCode), PyCharm, Anaconda, Spyder, Sonatype Nexus Repository, Jenkins

WORK EXPERIENCE

- **Mach Industries** Huntington Beach, CA
Software Engineering Intern June 2024 - current
 - Led the integration of computer vision models with thermal imaging for UAVs, utilizing tools such as Rust, MAVLink, and GStreamer.
- **MIT MISTI Global Teaching Labs** Madrid, Spain
Computer Science Instructor January 2024
 - Taught in Spain's public school system, instructing over 100 students on introductory computer science and objected-oriented programming in Python.
 - Led a project team of students in developing a back-end game suite for and presented at a coding bootcamp.
- **Northrop Grumman Corporation** Huntsville, AL
College Intern Technical June - August 2023
 - Worked as a backend developer on an agile development team integrating multiple languages into mission capable systems.
 - * Designed and implemented algorithms for predictive analytics using AI libraries in Python.
 - * Developed notification service API to relate device information to users in TypeScript.
 - * Built and demonstrated how to integrate Python services into existing TypeScript repository and CICD pipelines.
 - Participated in sprint planning, reviews, and presented work for chief architects and directors.
 - * Researched and implemented techniques to optimize meeting structure.
 - Practiced Models Based Systems Engineering/Digital Engineering
 - * Created Unified Modeling Language (UML) diagrams for team members to import in Cameo Systems Modeler.
 - * Created sequence diagrams for high level overviews of Python and TypeScript codebases.
- **MIT Department of Electrical Engineering and Computer Science** Cambridge, MA
Teaching Assistant, Learning Assistant January 2022 - May 2024
 - **Teaching Assistant:** Leading recitations, overseeing project teams, communicating with and advising students, and grading assignments for MIT's Design Thinking, Innovation, and Leadership in Engineering (D-TILE) class.
 - **Learning Assistant:** Assisting and tutoring students in office hours, performed checkoffs to evaluate students understanding of their code, and proofread and coded sample solutions for programming problem sets.
- **Caterpillar Inc.** Peoria, IL
Corporate Intern — Digital & Analytics May - August 2022
 - Collaborated on a agile development team, maintaining CICD pipelines across an extensive repository, using object oriented programming, GIT version control, and DevOps platforms.
 - Implemented parallel unit testing for CICD pipelines to improve efficiency of the testing suite.

LEADERSHIP EXPERIENCE

- **Delta Kappa Epsilon Executive Committee – MIT Chapter** Cambridge, MA
Treasurer April 2022 - May 2024
 - Manage general ledger, accounts payable, and accounts receivable for annual budget of \$400,000.
 - Receive, record, and authorize requests for disbursements.
 - Develop and maintain relationships with banking, insurance, and MIT entities to facilitate financial activities.
- **Gordon-MIT Engineering Leadership Program (GEL)** Cambridge, MA
Gordon Engineering Leader September 2022 - May 2023

HONORS AND AWARDS

- NCAA NEWMAC Football All-Conference 2023, Academic All-Conference 2021, 2022, & 2023
- Gridiron Club of Greater Boston Swede Nelson Award 2023