

Brady Klein

Current DoD Secret Clearance

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EDUCATION

- **Massachusetts Institute of Technology** Cambridge, MA
Candidate for Bachelors in Artificial Intelligence and Decision Making; GPA: 4.9/5.0 Aug 2020 - May 2024
 - **Coursework Topics:** Artificial Intelligence, Machine Learning, Robotics, Dynamical System Modeling & Control Design, Computational Cognitive Science, Algorithms, Math for Computer Science, Linear Algebra, Probability and Statistics
 - **Beginning enrollment in Master of Engineering (MEng) program** (September 2024 – May 2025)

SKILLS SUMMARY

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

WORK EXPERIENCE

- **MIT Department of Electrical Engineering and Computer Science** Cambridge, MA
Teaching Assistant, Learning Assistant January 2022 - Current
 - **Teaching Assistant - 6.910A/B (3 semesters):**
 - Guided student teams through hands-on engineering design projects, ensuring they applied concepts in practical scenarios.
 - Effectively taught recitations, presenting complex principles clearly and engagingly to enhance student comprehension.
 - Worked closely with professors to refine course materials and align teaching methods with course objectives
 - Graded assignments and exams, providing constructive feedback to improve student understanding and performance.
 - **Learning Assistant - 6.101 (1 sem.), 6.100A/B (2 sem.):**
 - Provided individualized support to students in office hours, clarifying programming concepts and troubleshooting code.
 - Conducted checkoffs to assess student understanding of programming assignments, ensuring mastery of key skills.
 - Crafted and proofread sample solutions for problem sets, setting high standards for code quality and documentation.
- **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 object-oriented programming in Python.
 - Led a project team of students in developing a back-end suite for games such as hangman and wordle.
- **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.
- **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 - Current
 - 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