

# Scott Nguyen

scott.nguyen8901@gmail.com |(515) 943-6283 |linkedin.com/in/scottnguyen8901

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## EDUCATION

**Master of Science in Electrical Engineering | Space Systems Engineering**

University of New Mexico

**Summer 2026**

GPA: 3.94/4.00

**Master of Science in Aerospace Engineering**

University of Illinois Urbana-Champaign

**Fall 2024**

**Bachelor of Science in Aerospace Engineering**

Iowa State University

**Spring 2022**

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## EXPERIENCE

**Youth Development Professional**

**October 2024 – January 2025**

*Boys & Girls Club*

- Designed and delivered an after-school **computer literacy** curriculum for grades 3–6 (typing, file systems, internet safety).
- Taught **introductory coding** via Scratch and beginner Python with project-based mini-units.
- Used quick pre/post checks and differentiated supports to boost engagement and skill growth.

**Math Teacher (Algebra I, Algebra II, Precalculus, Calculus)**

**October 2024 – January 2025**

*North Star School*

- Developed **unit plans, assessments, and problem sets** aligned to course objectives; integrated Desmos/GeoGebra.
- Differentiated instruction and provided timely, standards-based feedback.
- Connected math to **real-world STEM** applications to deepen understanding.

**Research Assistant, AE 298 National Defense Education Program**

**January 2023 – May 2024**

*Aerospace Engineering, University of Illinois Urbana-Champaign*

- Taught an introductory **rocketry** course for undergraduates.
- Collected and analyzed program data to evaluate impact.
- Redesigned course structure to improve retention and learning outcomes.

**Research Assistant, Grants for Advancement of Teaching in Engineering (GATE)**

**November 2023 – May 2024**

*Mechanical Engineering, University of Illinois Urbana-Champaign*

- Built a comprehensive **final project plan** using interdisciplinary pedagogy.
- Researched and authored a **literature review**; contributed to a conference manuscript.

**Teaching Assistant, ASTR 122/210**

**August 2023 – May 2024**

*Astronomy, University of Illinois Urbana-Champaign*

- Led weekly discussions; created exam reviews for **150+** students.
- Produced personalized study aids and graded **150+** assignments/exams.

**Graduate Career Peer**

**August 2022 – May 2024**

*Engineering Career Services, University of Illinois Urbana-Champaign*

- Advised students on career development and job-search strategies.
- Ran mock interviews with actionable feedback to improve performance.

**Graduate Assistant, National Defense Education Program**

**January 2023 – May 2023**

*Aerospace Engineering, University of Illinois Urbana-Champaign*

- Built partnerships with local **K–12** schools for rocketry/avionics initiatives.
- Mentored educators and students; supported impact evaluation.

**Private Tutor — SAT/ACT Test Prep & Math/Science**

**January 2020 – May 2022**

*Independent*

- Delivered one-on-one **SAT/ACT** prep (diagnostics, personalized study plans, pacing & test-taking strategies).
- Tracked growth with full-length practice tests; communicated progress and next steps to students/families.

**Calculus, Physics, and Differential Equations Tutor**

**January 2019 – May 2022**

*Academic Success Center, Iowa State University*

- Delivered tailored lessons for diverse learners in an inclusive setting.
- Achieved average grade improvements of **5%–10%** across students.