

# ZAKARY STEENHOEK

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## OBJECTIVE

Motivated aerospace engineering student with expertise in C++, MATLAB, and autonomous systems. A strong communicator and collaborative team player, eager to apply leadership and problem-solving skills to drive mission-critical projects and innovative solutions in the defense industry.

## EDUCATION

*Arizona State University | Tempe, AZ*

BS in Aerospace Engineering

Concentrations: Autonomous Systems | Software | Design

Fall 2022 - Spring 2026

GPA: 3.13

## EXPERIENCE

*Software Engineering Intern | General Dynamics Mission Systems | Scottsdale, AZ* May 2024 – January 2025

- Developed and deployed critical C++ bug fixes and feature enhancements for an aircraft ground support system
- Designed and executed unit tests for all new code, verifying system-level behavior to meet customer requirements
- Tools: IBM Rhapsody, SmartBear Collaborator, Rational ClearCase & ClearQuest, MS Suite
- **DoD Secret clearance**

*Assistant Manager | Cactus Aquatic and Fitness Center | Scottsdale, AZ*

March 2023 – May 2024

- Directed a team of 30+ staff in support of daily pool operations, swim lessons, and private rentals
- Supervised daily operations, finances, and opening & closing procedures to maintain facility integrity
- Implemented scheduling, resource, and personnel management & tracking systems

*Lifeguard & Swim Instructor | Cactus Aquatic and Fitness Center | Scottsdale, AZ*

March 2021 - March 2023

## Practicum

- PID wheel speed control system – full engineering design project MAE318 | Fall 2024
- Autonomous maze-solving robot – algorithm & design MAE494 | Spring 2024
- Solar panel output control system – full engineering design project EEE202 | Spring 2024
- Distal radius fracture prediction – finite element methods MAE201 | Spring 2024
- Large-language model for image recognition – layer design and tuning MAE494 | Spring 2024

## SKILLS

- Developed: MATLAB | C++ | PID control
- Intermediate: Python | ArduinoIDE | Java
- Fundamental: HTML | CSS | CAD

## CERTIFICATIONS | AWARDS | HONORS

- **Eagle Scout** December 2021
- FAA Drone License Part 107 Small UAS June 2023
- ASU New American University President's Award, annual August 2022

## ACTIVITIES

*Arizona State University*

- Air Devils Club: Active Member Fall 2023 - present
- Formula SAE: Active Member Fall 2023 - present
- Acacia Fraternity: Alumni Fall 2022 – Spring 2024