

JOHN KING III

Active Secret Clearance

Senior Aerospace Engineering Student

📍 San Diego, CA

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EDUCATION

CUMULATIVE GPA: 3.06

B.S. Aerospace Engineering

San Diego State University

📅 May 2022

📍 San Diego, CA

Major GPA: 3.23

SDSU GPA: 3.44

Dean's List: Spring 2020, Fall 2021, Spring 2021

PROJECTS

Close Air Support Aircraft

📅 Fall 2021

- Part of team that developed theoretical close air support vehicle to replace the A-10
- Wrote a MATLAB program that can perform analysis on aircraft with some simple design inputs. This allowed for optimization in a number design features and quick examination into other potential changes. Program includes different functions to analyze sizing, geometry, takeoff, landing and balanced field length
- Investigated the implementation of vector thrusting for the aircraft

Design Build Fly

📅 Fall 2021

- Part of the aerodynamics team; Assisted in design and analysis of aircraft wing and empennage
- Assisted in the manufacturing of the wing and empennage and construction of aircraft
- Performed theoretical analysis on a number of different airfoils to determine the best option for the aircraft

Jet Engine Design

📅 Fall 2021

- Single-handedly developed a theoretical jet engine that met design requirements while minimizing cost
- Wrote a MATLAB script that would take design input and determine the requirements and design of each component
- Utilized above script to determine optimal design to minimize engine cost

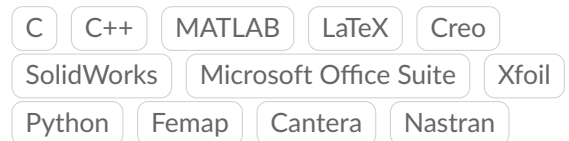
COURSEWORK

- Aerodynamics Series
- Stability and Control
- Thermodynamics
- Principles of Electrical Engineering
- Computer Programming Applications
- Aerospace Engineering Applications
- Propulsion
- Aircraft Structures
- Fluid Mechanics
- Orbital Mechanics
- Solid Modeling
- Engineering Materials

OBJECTIVE

Upcoming graduate from ABET-accredited Aerospace Engineering Program with over 10 years of military experience; looking to utilize my education and prior military experience in the Aerospace Industry.

SOFTWARE SKILLS



RESEARCH

Wind Tunnel Cooling

📅 2021

📍 San Diego State University

- Presented technical paper at 2022 AIAA SciTech Forum
- Designed/executed experiment to determine heat produced by wind tunnel at varying speeds
- Utilized energy balance theory to calculate heat generated by wind tunnel
- Calculated energy requirement and heat dissipation for new cooling system
- Provided data that will be used to select a new cooling system for San Diego State Low Speed Wind Tunnel

WORK EXPERIENCE

Aeromedical Evacuation Technician

U.S. Air Force Active/Reserve

📅 2011-Current

📍 Travis AFB

- Completed over 100 missions, totaling more than 700 flight hours on the C-17, C-130, KC-135, C-5 and C-12
- Deployed to Al Udeid AB, Qatar in 2018; received Aerial Achievement medal
- Supervised 8 individuals; provided mentoring, on the job training, scheduling and conflict resolution
- Managed, maintained, and resupplied over \$800K in equipment
- Ensured the proper filing and storage of classified and secret records for over 200 people and over 300 missions
- Developed and implemented new up to date flight tracking system for squadron