

Sundeep Singh

(973)-980-8959 | singhsundeep64@gmail.com
sundeepsingh.net | linkedin.com/in/sundeepsinghnj

EDUCATION

University of Pennsylvania – Philadelphia, PA August 2022 – December 2024 (expected)
Candidate for Master of Computer and Information Technology
GPA: 3.6 / 4.0

New Jersey Institute of Technology – Newark, NJ Sept 2018 – Dec 2021
Bachelor of Science in Mechanical Engineering
GPA: 3.9 / 4.0

RELEVANT COURSEWORK & SKILLS

Relevant Coursework: Algorithms & Computation, Data Structures & Software Design, Computer Systems Programming, Intro to Computer Systems, Mathematical Foundations of CS, Electrical Engineering Principles

Programming Languages: Python, Java, C, C++, LC3 Assembly, HTML, MATLAB

Technical Skills: Git, Linux, LaTeX, Microsoft Office Suite, Data Analysis

Engineering Affiliated Software: SOLIDWORKS 2020+ (Certified), Autodesk Inventor 2014+ (Certified), AutoCAD 2020+, Creo Parametric 5.0+, MD Solids 4.1.0

WORK EXPERIENCE

Collins Aerospace – Windsor Locks, CT Feb 2022 – October 2022
Project Engineer I

- Provided design oversight and certification for specifications, drawings, and test plans for the Pratt & Whitney F100 and F119 turbofan engines
- Performed system and component requirement reviews as well as compliance assessments while managing project risks and developing mitigation plans

Collins Aerospace – Windsor Locks, CT May 2021 – Dec 2021
Air Management Systems (AMS) Service Engineering Intern

- Investigated AMS component failures in the Boeing 777 and 787 Dreamliner fleets, gathering incoming field data to perform root cause analyses
- Resolved pre-existing corrective action plans to update aircraft component maintenance manuals in compliance with the Air Transport Association (ATA)

PROJECTS

COVID-19 Data Analyzer – Philadelphia, PA May 2023 – Aug 2023
Project for Data Structures & Software Design Course

- Designed and documented a Java program utilizing memoization along with various design patterns to analyze COVID-19 data from 50 zip codes in the greater Philadelphia area
- Parsed JSON and CSV files while processing this data to provide noteworthy statistics and trends

Battleship – Philadelphia, PA Nov 2022 – Dec 2022
Project for Intro to Software Development Course

- Developed a 10 x 10 grid recreation of the battleship game, where the human player was matched up against a computer program, using Java and employing various principles of object-oriented programming

Surveillance Drone – Newark, NJ Sept 2021 – Dec 2021
Research Assistant

- Studied the complex nature and design of the neuromorphic camera along with its multiplex sensor for its potential use in a surveillance drone, phasing out traditional camera technology
- Assisted in training a Python-based artificial intelligence program to recognize moving subjects (e.g. cars, people, and vehicles) using annotated footage from the camera to create a surveillance drone prototype

HONORS & AWARDS

- Academic Excellence Scholar (NJIT) Sept 2018 – Dec 2021
- Kaiser Scholarship (NJIT) Sept 2020 – Dec 2021
- Michaud, J.Ray & M. Endow Scholarship (NJIT) Sept 2020 – Dec 2021