

weston.r.lane.work@gmail.com

EDUCATION

Rutgers University (Currently Pursuing-Junior Year)
B.S, Computer Science

(transferred to) **Aug, 2023-May, 2026**
New Brunswick, NJ

- GPA 3.91

Del Mar Community College
31 credits achieved, Computer Science

(transferred from) **Aug 2021-May, 2023**
Corpus Christi, TX

- GPA 4.0

USCG TRACEN Elizabeth City
Avionics Electrical Technician

Jun, 2019-Dec 2019
Elizabeth City, NC

- Was educated on basic electrical theory, how to read wiring diagrams, troubleshoot aircraft electrical and mechanical issues, and soldering. Allowed for experience solving complex problems and critical thinking skills

PROJECTS/RELEVANT COURSEWORK

- Single file Software Ray Tracer; made with only the C++ std library. Makes JPEG images of raytraced spheroids in 3-Dimensional space with adjustable positional inputs. C++.
- Software Ray Caster; made with only the C++ std library. Allows for the creation of ray casted images and maps-C++. (in progress)
- Simple game projects with self-made rendering, physics, game logic, collisions, and basic AI -C++. (use of OpenGL wrapper library)
- JSON parsing API for converting 2D map data to a screen render-C++.
- Course Planner GUI-basic excel style GUI to plan courses-C++.
- Computer Architecture; low level implementations of data structures and algos along with fundamentals of computer architecture -C, Assembly (all work done in Linux environment with CLI)
- Data Structures and Algorithms; fundamental understanding of basic data structures and algos-Java.

WORK EXPERIENCE

United States Coast Guard
Third Class Avionics Electrical Technician (AET)

(6.5 yrs.) Jan. 2017 – Aug. 2023
Corpus Christi, TX

- Previously held **secret security clearance** while in the military (lapsed-1yr).
- Conducted routine and non-standard maintenance on USCG HC-144 aircraft. Maintenance includes mechanical and electrical troubleshooting on all aircraft systems. Strong problem-solving ability.
- Updated cryptographic codes for radio systems. Required attention to detail and secret clearance.
- Experience training junior members in onboarding, maintenance, and flight operations resulting in over 50 qualified team members. Accustomed to working with others to achieve a common goal.
- Experience coordinating and working with a team to accomplish mission tasks. Developed a strong passion for working with a team to achieve results.

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Previously held secret clearance; Mission Systems Operator; USCG TRACEN Elizabeth City
- **Skills/Languages:** Java; C; C++; Linux; CLI; Visual Studio; Training; Team coordination