**Joseph M. Morgan**

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EDUCATION

**North Carolina State University (NCSU)** -Raleigh, NCExpected December 2026

* BS in Aerospace Engineering (GPA 3.7/4.0)
* Dean’s List - GPA of 3.25 or better for 15 or more credit hours (*Fall 2023)*

**North Carolina School of Science and Mathematics (NCSSM)** -Durham, NC May 2023

* (GPA 4.8/4.0)

Relevant Coursework

* Engineering Statics (*Present*)
* Physics Egr II (*Spring 2024*)
* Applied Differential Equations I (*Fall 2023*)
* Computational Physics (*Spring 2023*)\*

\* High School Course

Relevant Activities and Leadership

**NC State Sailing Club Team “SailPack”,** Raleigh, NCFall 2023-Present

* Competes against other collegiate club and varsity sailing teams in fleet racing and team racing events
* Studies wind and water physics to understand the best routes and tactics on the race course in variable conditions

**Eagle Scout - Boy Scouts Troop 117,** Kitty Hawk, NCFall 2015-Fall 2022

* Awarded Eagle Scout rank after completing community-service Eagle Scout project consisting of over 60 hours of planning and work and managing 6 volunteers (*Fall 2022*)
* Organized and led activities such as troop meetings, community-service projects, and camping trips and spoke publicly on behalf of the troop as Senior Patrol Leader (*Fall 2018-Spring 2019*)
* Completed the National Youth Leadership Training program (*Summer 2019*)

**NCSSM Rocketry Club**Fall 2021-Fall 2022

* Designed and constructed rockets for flight to reach objectives set by the team
* Fabricated rocket components using CAD software and 3D Printers
* Collaborated to design and construct model rockets for flight within parameters in a competition

Relevant Skills and Interests

**CAD, Programming, and Computer Software and Hardware**

* Intermediate skills in Autodesk Fusion 360 CAD software
* Classroom experience in Java programming language including the JavaFX Package, and physics modeling
* Classroom experience in Python programming language including data analysis, and physics modeling
* Adobe Certified in Photoshop and Illustrator (*Spring 2021*)
* Basic experience in HTML, CSS, JavaScript, and C#
* Basic to Intermediate Experience using a UNIX/Linux Server
* Built several computers from off-the-shelf parts

**Mechanical Experience**

* Refurbished and modernized 1984 boat (*Summer 2021*)
* Repaired several two-stroke 6-150 HP outboard boat engines (*Fall 2018-Summer 2020*)

Work Experience

**Head Sailing Instructor - East Coast Sailboats,** Southern Shores, NCSummer 2016-Present

* Collaborates with instructors to teach beginner to intermediate sailing skills to children ages 7-17
* Manages risks on and around the water to ensure the safety of students and instructors
* Assists in the assembly of production boats in a warehouse