

Joel Weikel

High School Senior at The Early College at Guilford

Work Experience

Guilford College, Greensboro, NC - *Economics TA*

2026 - Present, 2 credit hours

- Assist college-level Economics coursework by facilitating study sessions and helping students master core economic concepts.
- Graded assignments

NC Maritime Museum, Beaufort, NC - *Sailing Instructor*

2025 - Present, 8-10 Hours Per Day, 4-6 weeks per year

- Planned and executed lessons for over 200 students 8-16
- Managed junior instructors
- Operated powerboats

NC Maritime Museum, Beaufort, NC - *Instructor in Training*

2023 - 2024, 8-10 Hours Per Day, 2-3 weeks per year

- Cleaned and maintained powerboats
- Acted as a lifeguard for swimming students

Education

Early College at Guilford, 5608 W Friendly Ave, Greensboro, NC

2024 - Present, 4.7 weighted gpa, 3.9 unweighted

- Graduation year 2027
- Taking full Guilford College dual enrollment courseload
- Service Diploma Candidate, Guilford County Schools

Projects

Boy Scouts Eagle Project - *Completed*

Designed and built a play kitchen for a local preschool with stained pressure treated wood and 3D printed parts, pending approval by board of review.

3D Printed Drone - *Completed*

Designed and built a drone with an FDM 3D-printed frame designed in CAD and Blender. Equipped with an Analog First Person View system and able to pull 6 G-forces of acceleration in a straight line.

Foundry Metallurgy - *Ongoing*

Led team in creating useful and artistic metal castings out of recycled metals and formulated cast alloys such as spinodal bronze, ZA 27, and manganese bronze.

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Skills

Proficient in Blender

Experience with CAD for Additive Manufacturing

Experience with Unreal Engine 5 game development

Accomplishments

Over 420 hours of community service with organizations like NC Maritime Museum and Out of the Garden

US Sailing Level 2 Certified Instructor

2025 Fencing State Champion in team and individual

2024, 25 Fencing Regional Team Champion

Qualified for Fencing Jr. Olympics in 2023, 24, 25, and 26

AP Scholar with Distinction

Language

Two semesters of college-level German with plans to continue study

Clubs

11th grade-present: Market Minds Club Board Member

10th grade-present: Page Fencing Club Team Captain

Greensboro Ecology Club Founder