

Zachary Schurr

zdschurr@gmail.com 786-614-2395 Miami, FL

Dear Regal Boats,

I am writing to apply for the Systems and Propulsions Engineering position at Regal Boats. I am a senior Mechanical Engineering student at the FAMU–FSU College of Engineering, graduating in Spring 2026, and I will be available to begin full-time work in May 2026.

My background combines engineering fundamentals with hands on marine experience. I've rebuilt carburetors, hydraulic trim systems, and rewired boat electrical systems from the ground up, where being off by a millimeter can mean an engine that won't start or a bilge pump that fails. I've restored hulls and trailers, worked with composites, and logged enough hours on the water to understand firsthand how rigging, balance, and propeller selection show up in real-world performance. Those experiences shaped how I approach problems. I like being close to the work, talking with technicians, and finding root causes instead of theorizing from a desk.

I also grew up working in my family's fabrication shop, where I learned how manufacturing actually happens, how CNC machines, laser cutters, and plasma cutters translate CAD files into physical parts, and how the manufacturing process makes or breaks the final product. I'm comfortable building BOMs, creating drawings, and organizing documentation so production doesn't waste time hunting for answers.

Having grown up on and around the water with countless hours on a boat, working for Regal Boats would provide the opportunity to fulfil a lifelong dream to work and contribute to the marine industry. I am particularly drawn to a systems and controls engineering role focused on integrating and validating onboard systems, collaborating closely with technicians, and supporting testing and production. I want to be somewhere where precision matters, change happens quickly, and where superior quality is the ultimate goal.

If you are looking for someone who is willing to start on the floor, learn your systems, document and improve processes, support production, and step in wherever help is needed, I would appreciate the opportunity to interview and demonstrate how I can contribute to your team. Thank you for your time to review my application.

Sincerely,

Zachary Schurr

Zachary Schurr

(786) 614-2395 zdschurr@gmail.com Miami, FL United States

SKILLS

- **Software:** SolidWorks, Creo, AutoCAD, Bluebeam, Excel
- **Fabrication and Assembly:** CNC Machines, Laser Cutters, 3D Printers, Oxyhydrogen Torches, Benders
- **Carpentry Tools:** Chop Saws, Table Saws, Jig Saws, Band Saws, Drills, Nail Guns
- **Mechanical System Design:** HVAC, Plumbing, Sprinkler, Electrical
- **Project Experience:** Woodworking, Fiberglass repair, hydraulic steering repair, carburetor rebuilds, design

EDUCATION

Florida State University, Tallahassee, FL

2021 — May 2026

Bachelor of Science in Mechanical Engineering

EMPLOYMENT HISTORY

Intern at RAAD (Ramirez Azadian Analysis and Design)

May 2024 — January 2025

- Worked with mechanical and electrical engineers on HVAC, plumbing, sprinkler, and electrical system layouts for NYC buildings.
- Used AutoCAD, Excel, Bluebeam, and Teams to create and revise construction documents.
- Reviewed building codes and supported drawing compliance before submission.

Project Design Manager at Creative Hands Design Technologies

Summers 2015 — 2025

- Fabricated, assembled, wired, and packaged custom illuminated displays and signage.
- Led Multiple custom display projects from concept through final installation.
- Implemented workflow improvements.
- Operated fabrication and woodworking machinery.

EXTRA-CURRICULAR ACTIVITIES

Marine and Mechanical Projects

- Rewired full boat 12V systems (batteries, switches, bilge pumps, navigation lights), rebuilt hydraulic steering and trim, and repaired fiberglass hulls.
- Designed and fabricated small components (fuel vent caps, custom brackets, mounting plates) using CAD and CNC/laser tools.
- Rebuilt a 150 HP Mercury outboard carburetion system from teardown through reassembly and tuning.

OTHER LEADERSHIP ROLES

Eagle Scout / Senior Patrol leader at Troop 7 Boy Scouts of America,

January 2014 — November 2020

- Achieved Eagle Scout rank, Serving as Senior Patrol Leader leading campouts, activities, and a major service project renovating a nonprofit classroom, including fundraising, planning, and risk assessment.

Drum Major

2020 — 2021

- Led my high school marching band through practices, performances, and events such as football games and pep rallies.