Andrew Barba

2300 Bluff Oak Way Apt. 4401 • Tallahassee, Florida 32311 • Phone: (352)-434-9579 • E-Mail: apb1994@comcast.net

Objective

To gain knowledge and experience in the engineering field by obtaining an entry-level position as a Mechanical Engineer.

Education

| Florida State University, Tallahassee, FL | May 2018 |
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| Bachelor of Science, Mechanical Engineering . Certification of Specialization: Thermal Fluids | |
| Skills | |
| Creo Parametric (PROE) MatLab, C++, C MathCAD | Effect • AutoCAD • Microsoft: PowerPoint, Excel Word |
| Experience | |
| 3M at Cottage Grove Center – Cottage Grove, MN Reliability Engineer Intern | June 2016 - August 2016 |
| • Worked with Reliability Engineers in the Plant Engineering division wide objective was to evaluate the current reliability of a process or improvements in order to extend the lifetime of the machine, improvempany. | r machine and pinpoint the potential areas for reliability |
| Commercial Salmon Fishing - F/V Berserker – Naknek, AK Professional Crewmember | June 2014 - July 2014 |
| Lived at sea aboard a 32 ft. commercial fishing vessel for six weeks Daily responsibilities included setting nets, picking fish, mending r Caught 105,000 lbs. of wild Sockeye Salmon with the assistance of Exceeded the sister boats net catch by over 30% Had to adapt to life out at sea, 24 hours of sunlight, long hours out | nets and unloading fish all within a 16-20 hour typical work day Fonly one other crew member |
| ArtisTree Landscape and Design Inc Venice, FL Tree Specialist | June 2013 - August 2013 |
| Worked on a five-man crew performing tree removals, trimming, Part time driver of heavy equipment and personnel transport Gained knowledge in different species of trees along with how to r Performed daily tasks of properly servicing all necessary equipment | naintain and trim various trees. |
| Project Experience | |
| Kite Generator Research and Develop a small scale generator powered by the osc solenoid, tether, glider, power converter, and a battery storage for | 3 |
| Low Power Mechanical Hack Saw | Spring 2017 |
| • Worked with a team to design, build, and optimize a system requirereated to reduce the output velocity and increase the torque. A d load points while considering a factor of safety. | |
| Autonomous Obstacle Detection Robot | Fall 2016 |
| • Worked on a team to develop a C programming code to impleme The vehicle simulated a wheelchair autonomously picking up an in restaurant. Infrared sensors were also integrated into the program | |

restaurant. Infrared sensors were also integrated into the program for obstacle detection, obstacle avoidance, and for generating appropriate system responses for the shortest path to the restaurant.

Vehicle Stability Control

Fall 2016

• Aided in coding a system which simulates the suspension stiffness of a vehicle given desired inputs such as type of vehicle, turning radius, speed of turn, and direction of turn. The program calculates the force exerted on the vehicle through the turn and displays the safety level on and LCD screen. If the safety level reached a dangerous level, the program would automatically adjust suspension and speed of vehicle in order to stabilize the vehicle back to a safe level.