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Objective *To gain further practical experience implementing modern control system techniques*

Education *University of Florida (entering 4th year)*

- Mechanical Engineering Major / Electrical Engineering Minor
- GPA of 3.99/4.0 (with 38 core courses – 3 of which are graduate level)

Experience *Machine Intelligence Lab, UF (summer 2013-current) – Mechanical Team Lead*

- Design and manufacturing in the continual development of a fully autonomous submarine for the AUVSI international RoboSub competition (2nd place, 2014)
 - Light-weight, water-proof vessels rated for 150 feet of water
 - Structurally efficient and modular carbon-fiber framework
 - Optimized marine propeller and nozzle
 - Pneumatics system using electronically throttled manifold
 - Computer vision, passive sonar, inertial sensors, and Doppler velocity log
 - Modern control methods: full-state feedback with Kalman filter; overactuated system solved for minimal-energy effort allocation
- Design and manufacturing for entry in the IEEE robotics & hardware competition
 - Mechanum-wheel chassis with integrated suspension; 4-degree-of-freedom (DOF) manipulator system; 2-DOF dart turret; all designed and built in house
 - LIDAR / odometry sensor fusion through particle filter; vision based SLAM

Society of Automotive Engineers, UF (2012-2013)

- Assisted in the design and manufacturing of a racecar for the SAE International Formula 1 student design competition
- Trained in mill and lathe operations, welding, sheet metal forming, and CNC machining; CAD and FEA in SolidWorks for design and analysis

Audio Engineering Society, UF (2012-2013)

- Designed electronics and analyzed circuits with regards to audio technologies
- Designed and constructed a plasma speaker (high voltage electrical arc is modulated to an audio signal causing plasma to reproduce the music)

Employment *JCC Fitness Center, Davie, Florida (2010-2012)*

- Front Desk Receptionist: Handled phone calls, organized appointments, and assisted administrators with database work (Summer 2011)
- Gym Employee: Maintained all gym machines and equipment, from cleaning to repairs and replacement-orders; assisted members and directed a core exercise class twice a week (2010-2012, part-time)

Specific Skills *CAD / FEA / manufacturing / programming (C++ and MatLab) / electronic circuit design*

Awards *MAE Undergraduate Scholarship for academic success in mechanical engineering*

ECE Undergraduate Scholarship for academic success in electrical engineering

References *Available on request*