

List of Capstone Projects (ENME 501 / 502) in 2019-2020

- #1: Design of a modular and scalable wing inner structure for a transitional aircraft
- #2: Design enhancement of a 3D printed robot Hip assembly
- #3: Aircraft Spar design for a Variable Pitch Propeller system
- #4: Design simplification of the Cricket's (hybrid robot) mechanical structure
- #5: Design of a super Humanoid robotic ankle
- #6: Sensor-based estimation and control of vortex induced vibrations
- #7: Enhancing Rocket Technology with Entrainment Control
- #8: Design, Fabrication and Subsonic Flight Testing of a UAV Designed for Supersonic Flight
- #9: Advanced Hybrid Rocket Engine
- #10: High Temperature Industrial Plastic Filament Extruder
- #11: Solar car wheels
- #12: Portable drone with recharging pack
- #13: Active Anti-Roll for a Formula SAE Vehicle
- #14: Anti-Tremor Unit
- #15: Crank End Volume Clearance Pocket for a Reciprocating Compressor
- #16: Development and construction of a sample holder enabling electrochemical experiments under ultra-high vacuum conditions
- #17: Design of two-stage evaporative cooling
- #18: Alternative Wind Power
- #19: Boodie Wrap
- #20: Self Contained Mixing Device
- #21: Solar Powered Glycol Circulation Pump
- #22: Production water primary treatment
- #23: Wire folding machine
- #24: Design, Optimize and Prototype a Cooling Tower System
- #25: Temperature-Regulation of Solar Panels Utilizing Solar-Thermal Technology
- #26: Dual Skim Pump for Groundwater Remediation
- #27: Liquid cooling system for high performance computer
- #28: Design and Construction of K-9 Learning Tools
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- #30: Fluffli Production Automation