

Senior Design Presentation Schedule

December 5, 2025

[Click on the Live Link to attend virtually.](#)

Live Link & Session #	Start/End Faculty Advisor	Project Description
VMP 1	8:00 AM - 8:35 AM VMP Dr. Joonwan Kim	Verso Motor Project is working with startup company MμZ Motion to help define the design and build a prototype and test bed for the Verso Motor, a unique and innovative lightweight, high-torque, electric motor.
LETREP26 2	8:45 AM - 9:20 AM LETREP26 Dr. Ko Sasaki	LeTourneau Rehabilitation Engineering Project 26 is correlating electric signals from muscles of stroke victims with a simple force sensor, to use in a rehabilitation machine for stroke patients to improve the rehab experience.
E-Gen 3	9:30 AM - 10:05 AM E-Gen Dr. Joonwan Kim	Project Electrogenesis is pursuing semiconductor fabrication at LETU, exploring feasibility of in-house development of high-quality semi-conductor devices through processes such as oxidation and photolithography.
LCR 4	10:15 AM - 10:50 PM LCR Prof. Norm Reese	LeTourneau Competitive Robotics project will design, prototype, test, and attend competition with two VEXU robots. They will also host 3 high school robotics tournaments, showcasing VEXU support at LeTourneau University.
On-PAR 5	11:00 AM - 11:35 AM On-PAR Prof. John Tixier	Putting Aid Robot project will design and prototype a putting performance assessment device for golfers using optical sensors to record and analyze key practice putting session data for use by players and coaches.
FLO 6	11:45 AM - 12:20 PM FLO Prof. John Tixier	Fluid Lab Overhaul project will refine an existing fluids lab apparatus by creating new modules and updating the data acquisition system for characterizing pump performance to improve the laboratory experience.
SAE Baja 7	12:30 PM - 1:05 PM SAE Baja Prof. Jeff Johnson	Renegade Racing will design, fabricate, document, and test a single-seat, four-wheel-drive off-road vehicle that meets the stringent SAE specifications for the SAE Baja competition in Rochester, New York, June 2026.
FENNEC 8	1:15 PM - 1:50 PM FENNEC Dr. Andrew Davis	Flight Emulation with Neural Networks for Event Characterization third- year project will use RC helicopter actual flight data to create a machine learning model to predict real-time estimates of the 3D center of gravity.
LUNAR 9	2:00 PM - 2:35 PM LUNAR Dr. Chad File	LeTourneau University Nexus for Amateur Rocketry project will design and launch a two-stage rocket to deploy a glider at 10,000 feet to compete in the Lone Star Cup and debut a new system for live, continuous GPS tracking.
TARMAC 10	2:45 PM - 3:20 PM TARMAC Dr. Hanwan Jiang	Team Airport Renovation: MEP, Architecture, Civil project involves site development, with structural, architectural, MEP and utility design for two types of aircraft hangars to be deployed at the Longview GGG Airport.
Lazy Rivers 11	3:30 PM - 4:05 PM Lazy Rivers Dr. Darryl Low	Lazy Rivers project seeks to advance the understanding of lazy river hydraulics and develop a design tool for engineers in the aquatic industry using laboratory experimentation and modeling of full-scale lazy rivers.
WAAM 12	4:15 PM - 4:50 PM WAAM 3D Printing Dr. Tao Dai	Wire Arc Additive Manufacturing project will use the newly installed Yaskawa welding robot (and/or cobot) to design and develop 3D metal printing and analysis capability in the Kielhorn Welding Laboratory.

Contact John Tixier (johntixier@letu.edu) for access to presentation recordings.