

Saluki Engineering Company (SEC) Project Request Form (PRF)

NAME Chase Lotito MAJOR: CEGR ☒ EE BME
SPECIALIZATION within MAJOR if any _____
Graduation Semester Spring 2025 GPA 4.0

Project Preference:

	Title	Proposed FTA*
1st choice project:	Energy Harvesting	Dr. Haibo Wang
2nd choice project:	Particle Size Evaluation Through Imaging	Dr. Steven Blair
3rd choice project:	Corn Silage Fermentation Project	Dr. Hui Li

Note: Priority will be given to your choice of project if it is sponsored and meets the course requirements. Consideration of teammates will be given only if all potential teammates choose the same projects.

Team Preference:

A team consists of more than one person working toward a common goal and should include individuals of diverse backgrounds, skills, or perspectives. There is to be enough engineering work for everyone to participate.

Name	Major	Name	Major
Aaron Faivre	EE	Taylor Demick	EE
Grace Dodd	EE	Dallas Douthett	EE
Hoyt	CS, EE, CE	Blake Jourdan	EE
Mitchell Wettig	EE	Jared Hillyer	EE

Projects require specialized skills of team members. Please describe your experience or specialized skills that you have that are relevant to your project choices. Especially list those not obviously held by anyone and everyone with your same major.

AutoCAD Electrical (Schematics, Panel layouts), Industrial Panel Layouts (UL508 Standard), Electronics (prototyping, design), KiCAD (Schematics, PCB, Gerber), Programming (C++, Python), IoT (MQTT, Basic ethernet), PLC & HMI Programming Design, LTSpice, Semiconductor Devices (Simulations in Synopsys), Digital Circuits (Verilog, Synopsys), Power Electronics (Motors, PWS)

Share with your team what course-based resources you bring to the project: In responses below please give technical elective or other design course names, not numbers.

Design courses I have taken:	Design courses I am taking:	Design courses I will take after this term:
PHYS305 - Modern Physics	ECE385 - Electromech Devices	ECE478 - Communication Systems
ECE447 - Semiconductor Devices	ECE469 - Machine Learning	ECE482 - Power Converter Design
ECE426 - VLSI Systems	MATH450 - Advanced Calculus	Whatever is offered...
ECE375 - Electromagnetic Theory		

How much time do you have to commit to this project? Successful teams have members who work consistently about 10+ hours a week.

Credit hours being taken this term (including 495a/c/e):	16
Credit hours to be taken next term (including 495b/d):	>15

***Faculty Technical Adviser (FTA) is from your major (EE, CEGR, BME). The department websites list faculty research areas, which allow you to see who has expertise in your project area.**

Fill out one PRF per each student. Submit online by due date.