Senior Design Project: Prandtl Wing

CRN: 17023
Credit Hours: 3.0
Faculty Name: Dr. Methaq S Abed
Office Location: Engineering Building. A104
Email: msabed@utep.edu
Classroom Location: Hudspeth Hall 313
Class Meeting Time: 3-4:20 pm MW
Start-End Date: 8/28/2023-12/07/2023.
Office Hours: Monday and Wednesday 1:30-2:30 pm, and students are welcome to set up an appointment to meet through MS Teams or in person for another day and time if needed.

Description:
This course is 3.0 credit hours, intended to assess the type of work assigned during the semester. This course develops the student’s skills in designing and manufacturing aerospace components, including but not limited to using 3D printing. A finite element analysis is needed to check the design requirements. The course requires a prototype, design, manufacturing, assembly, documentation, and safety.

The course will benefit engineering students in the following areas:
- Solid Mechanics Area
- Aerodynamics
- Electro-Mechanical Area

Required documents/tasks to submit are:
1- Submit a monthly progress report.
2- Attend/participate in the final design presentation.
3- Write a recommendation for the next step in the design/or if there would be a required revision.

Students will be able to:
1- Design, build, and implement the engineering concept from UG courses.
2- Build confidence in the student.
3- Learn to work in teams.