

Jasmina Begović

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EDUCATION

University of Florida Honors Program
Bachelor of Science in Mechanical Engineering

May 2026
GPA: 3.70/4.00

EXPERIENCE

Tractive System Engineer - Gator Motorsports Formula SAE Design Team August 2022-present

- Collaborated with tractive system engineers to manufacture first composite accumulator enclosure that weighs 15.4 lb, decreasing the weight by 19% from the previous year
- Lead a group of 5 people to manufacture 5 prepreg composite flat plate layups for the inner walls between segments of the accumulator enclosure
- Performed T-peel test on the aramid fiber coupons to evaluate the strength of the adhesive that is being used for bonding of accumulator enclosure walls
- Manufactured carbon and aramid fiber prepreg composite coupons and panels and performed three-point bending test and perimeter shear test, to make the composite schedule for accumulator enclosure
- Designed and manufactured aluminum mounting system, for low voltage battery that reduced weight by 65% compared to the previous year's one, using SOLIDWORKS, abrasive waterjet, and manual sheet metal machines
- Supervised team members in manufacturing components on manual mill and lathe and abrasive waterjet

Aerodynamics System Engineer - Gator Motorsports Formula SAE Design Team August 2022-present

- Collaborated with aerodynamics team to manufacture carbon-fiber undertray, rear and front wing for the electric formula-style vehicle, by performing composite hand lay-ups and post-processing them to achieve C_L/C_D of 2.54
- Performed CFD simulations in Simcenter STAR CCM+ of the different iterations of undertray to obtain lift, drag, and COP, used to design a new aerodynamics package
- Supervised a group of 5 engineers to make part drawings of the aerodynamics components to be machined on the manual machines, utilizing DFM rules

UF Undergraduate Research AI Biomechanics January 2024-present

- Assisted in Humen Movement Databank biomechanics data collection using markerless motion capture method implementing Vicon and Theia markerless to study walking patterns at people with knee osteoarthritis

UF Herbert Wertheim College of Engineering-Peer Advisor September 2023-present

- Held weekly in-person and online office hours and advised freshmen students about academics and helped them engage in the UF community
- Held workshops for freshmen with a group of peer advisors and presented about various topics such as professional development, time management, UF involvement, and others

Teaching Assistant- UF Professional Development: Engineering class August 2023-November 2023

- Lead a class of 15 students while teaching them about professional skills that include writing resumes, elevator pitches, interviewing, and others
 - Assisted professor in conducting workshops to engage the students in class activities and discussions
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SCHOLARSHIPS

Davis United World College Scholar

2022-2026