

Emre Mengi

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PERSONAL INFORMATION

Country of Origin: Turkey
Gender: Male
DOB (DD.MM.YYYY): 07.09.1998
Driving License: B (Republic of Turkey), C (State of California)

OBJECTIVE To make the most out of the opportunities in the Department of Mechanical Engineering at UC Berkeley, including teaching and research experience, then to become a manufacturing engineer, to work at an automotive or aerospace company

CURRENT EDUCATION

Ph.D., Mechanical Engineering, University of California, Berkeley, First-Year Student

PRIOR EDUCATION

B.S. (2020) Mechanical Engineering, University of California, Davis – With Highest Honors
B.S. (2020) Aerospace Science & Engineering, University of California, Davis – With Highest Honors

GPA: 3.91/4.0

Honors:

Dean's Honors List for Winter Quarter 2017	Dean's Honors List for Fall Quarter 2018
Dean's Honors List for Spring Quarter 2017	Dean's Honors List for Winter Quarter 2019
Dean's Honors List for Fall Quarter 2017	Dean's Honors List for Spring Quarter 2019
Dean's Honors List for Spring Quarter 2018	Dean's Honors List for Fall Quarter 2019

Courses taken include:

Engineering Graphics in Design	Dynamics
Aerospace Structures	Fluid Mechanics
Engineering Problem Solving	Mechanics of Materials
Finite Element Methods in Structures	Thermodynamics
Manufacturing Processes	Stability and Control of Aerospace Vehicles
Aircraft Propulsion	Thermo-Fluid Dynamics
Properties of Materials	Electric Circuits and Systems
Applied Aircraft Aerodynamics	Orbital Mechanics
Mechanical Design	Heat Transfer
Automatic Control of Engineering Systems	Professional Responsibilities of Engineers

ENGINEERING EXPERIENCE

- Undergraduate Research Assistant at **ARMS (Advanced Research for Manufacturing Systems) Laboratory UC Davis** April 2019 – June 2020
 - Designed and manufactured a Nozzle Testing Chamber for Additive Manufacturing Optimization for CNC Machines
 - Assisted staff and graduate students with their respective projects
 - Trained for DMG MORI CNC Machines and Esprit CAM Software
- Intern at **Roketsan Missiles Inc., Ankara/TURKEY** July 2018-August 2018
 - Advanced Guidance and Control Technologies Department

- Baja SAE at UC Davis September 2017 – June 2020
 - **(2018-2020) Drivetrain Sub-team Co-Lead**
 - **Specialization:** Gearbox design and manufacturing
 - Overseeing Gearbox, Brakes, Continuously Variable Transmission, Differentials, Axles Subsystems
 - **(2017-2018) Drivetrain Sub-team Member**
 - **Specialization:** Differentials, Continuously Variable Transmission
- Hyperloop at UC Davis September 2017 – February 2018
 - **Wheels Sub-team Member**

HIGH-SCHOOL EDUCATION

International Baccalaureate Diploma and National Diploma at **TED Ankara College Foundations Private High School, Ankara, Turkey** July 2016

ACTIVITIES/HONORS/AWARDS

- Ex-licensed Skier
- **Merit Scholarship (TED Ankara College Foundation Private High School):** Awarded to students who achieve the top percentile score in the Turkish National Standardized Placement Exam.
- **Ministry of Education's Academic High Honor Certificate (Republic of Turkey, Ministry of National Education):** Awarded to students with a GPA 4.5/5.0 or higher, received each semester of each academic year.
- **Ministry of Education's Exceptional Academic High Honor Certificate (Republic of Turkey, Ministry of National Education):** (June 2015) Awarded to students who obtain academic high honor certificate for 3 consecutive years.
- **Ministry of Education's Honor Certificate (Republic of Turkey, Ministry of National Education):** Awarded to a student for presenting behavioral excellence, and having exemplary relations with teachers, staff and students during the semester, received in second semester of 2012-2013 academic year and each semester of each following academic year.
- **Provost Award (University of California, Davis):** The Provost Award is a highly prestigious award granted to high achieving admitted freshmen from various regions outside of the state of California.

SKILLS

- Proficient in Turkish and English, A2 Level German
- Proficient at Microsoft Office programs
- SolidWorks
- Machining Tools (Lathe, Mill, Drill Press)
- Drawing and sketching
- MATLAB
- Python
- Esprit CAM

MEMBERSHIPS

- Society of Automotive Engineers
- American Institute of Aeronautics and Astronautics

REFERENCES

- Aaron Martinez, Baja SAE at UC Davis Former Captain and Drivetrain Lead (amartinez@psemc.com)
- Selva Sargin, Engineer at Roketsan Missiles Inc., Advanced Guidance and Control Technologies Department, (selva.sargin@roketan.com.tr)
- Kyle Odum, Ph.D., Development Engineer at ARMS Laboratory, Department of Mechanical & Aerospace Engineering, University of California, Davis, (ksodum@ucdavis.edu)