Ibrahim Eren Bisen

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EDUCATION

The University of Texas at Austin Aug 2021 – Apr 2026
B.S., Aerospace Engineering • Certificate in Elements of Computing • GPA: 3.6
Honors: Congressional Award Gold Medal, TBPE The Future Engineering Award, Raindrop Higher Education Fund Scholarship

EXPERIENCE

Hexis Dynamics, Hybrid Nov 2026 – Present
Aerospace Engineer

ApplyMaxxing Mar 2026 – Nov 2026
Software Engineer

- Built and shipped a desktop app that tailors resumes, fills out job applications, and tracks the job search.

MxV Rail, Pueblo, Colorado Apr 2025 – Aug 2025
Precision Instrumentation Engineer

- Ran full-scale impact tests on heavy-duty dampers for Blue Origin's New Glenn landing gear, acquiring and validating precision data under extreme dynamic loads.
- Designed a water-containment system for a high-speed bearing test rig, applying thermal management and materials selection to improve durability testing.
- Calibrated instrumented wheelsets and ran MiniProf profile surveys to verify mechanical integrity and tolerance compliance.

Project PL8, Austin, Texas Aug 2023 – Jul 2026
President and Engineering Lead

- Founded and led a 64-member team across 4 business and 8 engineering sub-teams to build a student-made, street-legal sports car with a basalt-fiber body.
- Directed all engineering phases, from initial concept review to final production.
- Led the Chassis team in designing a monocoque-style structure that combined racing technology with traditional automotive manufacturing.
- Secured corporate partnerships with companies in sustainability and automotive innovation.

Texas Guadaloop, Austin, Texas May 2023 – Dec 2023
Manufacturing Team Lead | Track Design and Manufacturing Engineer

- Led 11 members through 3 projects: shop air-tool systems ("Restore Pickle Labs"), Kevlar and fiberglass composite shells, and a custom machined-and-welded hyperloop trailer.
- Designed a hyperloop test track with CAD and GD&T drawings, stress-tested it, and manufactured a 6 ft section.
- Taught 4 workshops on MIG welding, machining, shop safety, and composites.

Other Experience: View my other positions at iebisen.com/experience

PROJECTS

Gray - 3D-printed quadruped robot, trained to walk in simulation with reinforcement learning
Forged-Carbon F1 Rig - Formula 1 sim cockpit with a hand-shaped forged-carbon seat
BMW 1984 E30 - Full nut-and-bolt restoration
Software - ApplyMaxxing (desktop job-application app), Velm (native Rust canvas app); more at iebisen.com/projects

ADDITIONAL INFORMATION

Publications: IGI Global – 2, Eurasian Journal of Higher Education – 2, London Journal of Sciences – 1; 3 talks at the London International Conference on Education
Design Skills: SolidWorks, Autodesk Inventor, Fusion 360 (5-axis CAM), Autodesk Vault, ANSYS (FEA), GD&T, KiCad, Machining, Composites, TIG/MIG Welding
Test Skills: Data acquisition, sensor calibration, full-scale impact testing
Computer Skills: MATLAB, Python, C++, Java, Rust, Git, Linux, Unity, HTML/CSS/JavaScript
Languages: Fluent in English and Turkish, working proficiency in Russian and Arabic