

Himanshu Prasad

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EDUCATION

Texas A&M University, Mays Business School

Master of Business Administration

College Station, TX

Aug 2027

Texas A&M University, College of Engineering

Bachelor of Science in Materials Science & Engineering

Minor: Computer Science

College Station, TX

May 2026

EXPERIENCE

Blue Origin

Seattle, WA

Materials & Processes Graduate Intern, Engines

May 2026 – August 2026

- Enhanced cryogenic mechanical performance of nickel-based superalloys by approximately 3% through data analysis and material specification recommendations
- Developed AI-powered tools and agents to automate engineering analysis, sharpen decision-making, and shorten evaluation time
- Designed material qualification strategies with cross-functional teams and presented recommendations to guide engineering decisions

BMP Testing and Calibration Services Inc.

Houston, TX

Quality Manager & Metallurgist

January 2025 – Present

- Lead ISO 9001-aligned quality operations across materials testing, inspection, and calibration services for industrial clients
- Manage procedures, documentation, and compliance workflows to ensure audit readiness and service quality
- Coordinate laboratory, inspection, and calibration teams while training technicians to promote consistency and customer delivery

Nucor Steel Memphis

Memphis, TN

Heat Treat Metallurgy Intern

May 2025 – August 2025

- Decreased 4330V steel hardness variation by 12 HBW through process optimization and operational analysis
- Diagnosed the primary cause of steel yield-strength issues through root-cause analysis, enabling more focused quality improvements
- Standardized hardness-testing procedures for technician training, process consistency, and audit readiness

JSW Steel

Baytown, TX

Metallurgy Intern

May 2024 – August 2024

- Investigated ultrasonic test rejections in A36 steel pipe and plate through metallurgical failure analysis and optical microscopy
- Identified manganese sulfide (MnS) stringers as the primary defect mechanism by connecting inspection results with microstructural analysis
- Proposed chemistry changes to improve material toughness by approximately 30 ft-lbs

LEADERSHIP & INVOLVEMENT

CFAN Aerospace Composite Adhesives Capstone

College Station, TX

Senior Capstone Team Leader

August 2025 – May 2026

- Led multidisciplinary team in reducing test variability below 10% coefficient of variation through fixture redesign, validation, and statistical testing
- Directed the project team in presenting capstone findings and recommendations to the ASTM D30 Committee
- Conducted statistical testing across multiple aerospace materials and adhesive systems for validation of performance

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python, Microsoft Excel, QuesTek ICMD, AutoCAD, Autodesk Inventor, SolidWorks

Certifications & Training: Corrosion Science & Engineering, ASNT NDT Level II (MT, PT, UT, RT, VT)