

Himanshu Prasad

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Education

Texas A&M University, BS in Materials Science and Engineering Aug 2022 - May 2026

- **Minor:** Computer Science
- **Coursework:** Deformation Mechanics of Materials, Unified Materials Lab I & II, Materials Characterization, Electrochemistry and Corrosion of Materials

Experience

Heat Treat Intern | Nucor Steel Memphis May 2025 – Aug 2025

- Assisted in monitoring and optimizing heat treatment processes including quenching, tempering, normalizing, and annealing of steel products

- Collaborated with senior metallurgists and gained exposure to Nucor's lean manufacturing principles, safety culture, and continuous improvement philosophy
- Collaborated with the Safety and Maintenance teams on a plant-wide safety initiative to redesign access points around quench tanks, reducing slip and burn hazards

Q.C. Manager & Metallurgist | BMP Testing & Calibration Services Inc. Jan 2025 – Present

- Supervised a team of inspectors and technicians; conducted training sessions on NDT methods, root cause analysis, and documentation procedures

- Led quality assurance and control processes for raw materials, in-process products, and final outputs to ensure compliance with ASTM, ASME, and customer-specific standards
- Developed and implemented Quality Management Systems (QMS) in alignment with ISO 9001, resulting in improved audit performance and reduced non-conformance rates

Metallurgical Lab Intern | JSW Steel USA May 2024 – Aug 2024

- Performed metallurgical analysis and testing on various steels
- Conducted research on the effect of heat treatment time and temperature on steel toughness

- Developed a new chemistry to increase the toughness of ASTM grade steel by 30 feet lbs
- Analyzed previous UT data to identify root causes of rejections

Research Assistant | Texas A&M University March 2024 – Present

- Mentor: Dr. George M. Pharr

- Performed nano-indentation analysis on metal and polymer samples
- Completed 3-D imaging using microscopy to analyze indents
- Created Python scripts to analyze nano-indentation data for phase characterization

Lab Technician | NDT Consultancy Services Inc. Jan 2023 – May 2024

- Performed visual, magnetic particle, liquid penetrant, ultrasonic phased array, and radiographic testing on various materials

- Conducted NDT testing (VT, MT, PT, UT, RT) and trained students in Level I techniques across various materials

Skills/Certifications

Skills: Object-Oriented Programming (C++ , Java), Python, CAD (Autodesk AutoCAD, Inventor, & SolidWorks)

Certifications: NDT Level I & II (Magnetic Particle, Penetrant, Ultrasonic, Radiographic, and Visual Testing), Autodesk Inventor Certified User

Technical Skills: SEM/EDS, Hardness Testing (Rockwell, Brinell), Metallography, Heat Treatment, Failure Analysis