Hannah Kim

MATERIALS ENGINEERING INTERN

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SUMMARY

Materials engineering student at Purdue University graduating in 05/2027 with a 3.6 GPA and 2 lab jobs in mechanical testing and microscopy. Runs tensile testing, metallography and SEM imaging, and analyzes results in Python, MATLAB and Excel. Writes clear lab reports and wants a summer 2027 internship in metals or polymers.

EXPERIENCE

Materials Engineering Intern

05/2026 - Present

Wabash Valley Castings — Lafayette, IN

Part-time internship, continued into the school year, at an aluminum die casting plant.

- Run tensile testing and hardness checks on **80+** casting samples a week for the quality lab.
- Examine porosity in cross-sections with optical microscopy and log results for 6 part numbers.
- Analyze scrap data in Excel and Python, which pointed to a die temperature issue behind 20% of rejects.
- Write test summaries for the plant metallurgist and present a porosity study to 10 engineers.
- Set up a sample tracking sheet for the quality lab, bringing lost or mislabeled samples to 0 in 4 months.

Undergraduate Lab Assistant

08/2025 - 04/2026

Purdue University School of Materials Engineering — West Lafayette, IN

Part-time research lab role, 12 hours a week.

- Prepared 150 metallography samples by sectioning, mounting and polishing steel and titanium coupons.
- Collected SEM images and EDS maps for 2 graduate projects on additive manufactured alloys.
- Measured XRD patterns for 40 powder samples and organized the lab's shared data folder by project and date.
- Trained 3 new undergraduates on saw, polisher and fume hood safety during their first 2 weeks in the lab.

SKILLS

Tensile Testing | Metallography | SEM | Optical Microscopy | XRD | Python | Excel | MATLAB | Lab Reports | Communication Skills

EDUCATION

Bachelor of Science

05/2027

Purdue University — West Lafayette, IN

Materials Engineering — GPA: 3.6

CERTIFICATES

Certified SolidWorks Associate (CSWA)

11/2025

Dassault Systèmes