

# Zachary Krause

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## EDUCATION

**Arizona State University | Ira A. Fulton Schools of Engineering** Tempe, AZ  
M.S. Civil, Environmental and Sustainable Engineering (Hydrosystems Engineering) May 2026  
B.S.E. Civil Engineering (Sustainable Engineering) 4+1, Spanish (Minor) – Summa Cum Laude May 2025

## CERTIFICATE

Engineer-in-Training (EIT) Certification  
International Business Studies, Certificate  
Public Administration and Public Management, Graduate Certificate

**TECHNICAL SKILLS:** Civil 3D, Bluebeam, Primavera P6, HEC-HMS, HEC-RAS, WaterCAD, Sketchup, Smartsheet, Excel

## EXPERIENCE

**Wood Patel & Associates Inc** Phoenix, AZ  
**Design Engineer Intern — Residential** January 2025 – Current

- Support civil engineering design tasks for land development projects, including grading, drainage, and utility plans
- Assist in preparing construction documents and technical reports in collaboration with project engineers
- Prepared civil plan sets, specification books, exhibits, and other construction bid documents

**Quiddity Engineering LLC** Houston, TX  
**Civil Engineer Intern — Land & Site Development** May 2024 – August 2024

- Utilized Civil3D to design water, sanitary, and stormwater pipe networks in plan and profile views
- Utilized Civil3D to grade project sites to optimize site drainage as well as other relevant design engineer tasks
- Reviewed contract and finance documents for large master planned community projects

**Kiewit Corporation** Phoenix, AZ  
**Field/Office Engineer Intern — Northwest Extension Phase II Light Rail Project** May 2023 – August 2023

- Developed and reviewed work plans for multiple disciplines using specifications and drawings
- Initiated crew activities, mandatory testing, quality checks, and take-offs
- Assisted with the QA/QC process and expedited project closeout

**Plan Estratégico Metropolitano de Barcelona (PEMB)** Barcelona, Spain  
**CIEE GLINT Program Study Abroad Internship** May 2025 – July 2025

- Conducted policy analysis, global benchmarking, and cross-sector research to support resilient housing strategies
- Collaborated with a multilingual team, enhancing cultural competency, adaptability, and communication
- Represented ASU and CIEE as an ambassador, engaging 15K+ followers through social media outreach

## LEADERSHIP & ACTIVITIES

**ASCE – ASU Student Chapter** Tempe, AZ  
**Sustainable Solutions Team, Construction Institute Team, Outreach Chair** August 2022 – Current

- Designed commercial site renovation and waterfront revitalization projects using ENVISION criteria
- Estimated real-world construction engineering projects and presented project proposal
- Organized social and professional events to engage participation and community

**CEE487 – Integrated Civil, Construction, Environmental Engineering Design** Tempe, AZ  
**Due Diligence (Team Lead)** August 2024 – May 2025

- Prepared a due diligence report for a land use master plan for a multi-use project in Maricopa County
- Coordinated with team to prepare a comprehensive project design report incorporating all disciplines
- Oversee team meetings and project documentation throughout the entire year to win first place

**Arizona State University Housing** Tempe, AZ  
**Residential Experience Coordinator** August 2022 – Current

- Fostered an inclusive environment for over 1500+ residents through programmed events and interactions
- Responded to crisis situations and policy violations with professionalism and empathy
- Facilitated team training and staff appreciation

*\* References available upon request*