Drew Davis

Civil Engineering Student

+1(901)820-6832 dcdavis8@memphis.edu Memphis, TN

Summary

Passionate Civil Engineering student hoping to break into the transportation sector. Eager to provide meaningful solutions to problems facing communities and to learn more about cutting edge technologies that can aid in these solutions.

Education

- **University of Memphis**

  Bachelor of Science - Civil Engineering
  Bachelor of Arts - World Languages

  Expected Completion in May 2025

Skills

- Technical Writing
- Microsoft Office
- Effective Communication
- Interpersonal Skills
- Strategic Planning

Awards

Dec. 2024| University of Memphis

Dean's List

Oct. 2024| University of Memphis

Research Symposium Award Winner

Aug. 2024 | University of Memphis

Helen Hardin Honors College

Experience

Undergraduate Researcher *August 2024 - Present*

University of Memphis

·Research transportation projects related to active transportation

·Contribute to reports for government and university research projects

·Collaborate on a Level of Traffic Stress map for the city of Memphis to evaluate current bike infrastructure

STEM Ambassador *August 2024 - Present*

West Tennessee STEM Hub

·Facilitate events for robotics competitions

·Coordinate with community events to bring STEM related activities

·Contributed to planning and execution of STEM events for students and youth in Memphis

References

Dr. Stephanie Ivey

University of Memphis

Title: Professor

Email : ssalyers@memphis.edu

Charles Camp

University of Memphis

Title Professor

Email : charles.camp@memphis.edu

JACINTA FRITZ

Mechanical Engineering Student

+(731)413-2193 jacinta.fritz@outlook.com Memphis, TN

Education

- **University of Memphis**
  Bachelor of Science - Mechanical Engineering
  Expected Completion in May 2025

Skills

- Siemens NX
- Process & Instrumentation Diagrams (P&IDs)
- Failure Mode and Effects Analysis (FMEA)
- Predictive Technology
- Microsoft Office
- Interpersonal Skills
- Strategic Planning

Awards

Dec. 2024| University of Memphis
Dean's List

Aug. 2024| NCEES
Engineering Intern (EI) Cert.

Aug. 2024| University of Memphis
Presidential Scholarship

Summary

Innovative mechanical engineering student passionate about transforming ideas into high-quality, efficient, and affordable solutions. With a solid foundation in manufacturing processes, I am eager to bring my expertise in problem-solving and product development to create impactful, real-world solutions.

Experience

Mechanical Engineer Intern *May 2024-Aug. 2024*
Nucor Steel Memphis

- Increased the load rating of a grating table to 2,200 lbs by constructing 3D-models, performing finite element analyses, and fabricating additional structural support
- Launched the installation of a new personnel fall arrest safety system by constructing CAD models, designing OSHA-compliant access catwalks, and updating plant equipment layouts

Reliability Engineering Intern *May 2023-Aug. 2023*
Intl. Flavors & Fragrances

- Optimized pre-op inspections by generating training material highlighting the failure points of the site's 254 pieces of critical plant equipment
- Advanced the impact and efficiency of preventative maintenance programs for 900+ pieces of plant machinery by creating spare parts inventories and a site-wide equipment layout map

Maintenance/Safety Intern *June 2022-Aug. 2022*
AB Mauri North America

- Generated process and instrumentation diagrams for the plant's entire molasses system
- Completed a failure mode and effects analysis report for the fermenter system by surveying system machinery and determining viable measures to prevent high risk failure points

References

Dr. Stephanie Ivey
University of Memphis
Title: Professor
Email: ssalyers@memphis.edu

Tricia Foster
Koppers
Title: Engineering Manager
Email: fostertl@koppers.com

PHILLIP CHASE KESNER, P.E.

Geotechnical Engineer and Graduate Student

+901-229-4624 pkesner@memphis.edu Memphis, TN

Education

- **University of Memphis**
  M.S. Geotechnical Engineering
  Expected Completion in May 2025
- **Christian Brothers University**
  B.S. Civil & Environmental Engineering

Skills

- Geotechnical Design
- Flood Risk Management
- Civil Engineering Drafting
- Field Inspections

Awards

Feb 2025 | Emergency Response
Civilian Service Achievement Medal

Dec 2023 | Tennessee
Professional Engineer (PE) License

2017 and 2018 | ASCE Deep South
2X Surveying 1st place finish

Summary

Geotechnical engineer, emergency responder, and graduate student with a diverse background, excellent time management and commited to service. My area of expertise revolves around public civil works projects that provide flood risk management, environmental restoration, and sustainable development initiatives.

Experience

Geotechnical Engineer *Mar. 2022 – Present*
Geotechnical Branch, US Army Corp of Engineers

- Draft geotechnical reports that detail findings and recommendations for civil works projects
- Fulfill the duties of a lead inspector, provide drilling and testing guidance, and review geotechnical reports and construction documents
- Advisor on the GIS Technical Committee to establish standards and implementation procedures for the District GIS branch

Emergency Response *May 2021 - Present*
Power Response Team, US Army Corp of Engineers

- Serve on the temp. emergency power mission, which provides power to critical infrastructure during widespread power outage

Temporary Housing Team, US Army Corp of Engineers

- Performed the role of CADD expert following Hurricane Ida on the temporary housing mission
- Created site plans and layouts for large scale housing sites in a high stress, fast paced environment
- Trained other engineers to perform similar processes

Civil Engineer *May 2019 - Mar. 2022*
Design Branch, US Army Corp of Engineers

- Draft site plans and specifications for the construction of flood prevention features
- Review and provide feedback on construction plans and specifications
- Establish an office space utilization plan after staffing increase from COVID, conduct inspections and site visits and assist training entry level civil engineers

References available upon request

AMELIA STROZIER

Biomedical Engineering Student

757-377-8912 jstrzier@memphis.edu Olive Branch, MS

Summary

Biomedical Engineering Student who enjoys combining problem-solving skills with the opportunity to make a tangible impact on the lives of individuals. Strongly interested and have hands-on, in-clinic experience in the Orthotics and Prosthetics field.

Experience

Shadowing *Summers 2023 - Present*
Prosthetic One
- Shadowed under a Prosthetic and Orthotic Practitioner
- Interacted with patients in both a clinical and hospital enviroment

Research Assistant *August 2024 - Present*
University of Memphis
- Researching Knee Biomechanics and the impact of the infrapatellar fat pad
- Configure testing apparatuses for experimental procedures

Student Teaching Assistant *August 2023 - Present*
University of Memphis
- Assist Students in material comprehension in first year engineering courses
- Grade student assignments and record attendance

Controls Engineer Intern Summer 2022
Multi-Dimensional Integration
- Built and assembled electrical control panels
- Training in Programable Logic Controller - Ladder Logic Programming

Lifeguard Instructor *March 2022 - Present*
YMCA of Memphis and the Mid-South
- Plan and teach Red Cross lifeguard training program to certify lifeguards in CPR, Emergency Oxygen Administration, First Aid, and other lifeguarding skills.
- Run monthly inservice training, maintaining and improving skills of lifeguards

Education

- **University of Memphis**

Bachelor of Biomedical Engineering
Expected Completion in May 2025

Skills

- Microsoft Office
- MATLAB
- Mimics Innovative Suite
- Classroom Management and Instruction

Awards

December 2024 |
University of Memphis
Dean's List

References

Dr. Stephanie Ivey
University of Memphis

Title: Professor
Email : ssalyers@memphis.edu

Rachel Sidle
Prosthetic One

Title: Orthotic and Prosthetic Practitioner
Email : rachel@prosthetic1.com

ELEANOR SCOTT WALDRON

Electrical Engineering Student

+901-592-9850 erscott2@memphis.edu Memphis, TN

Education

- **University of Memphis**
  Bachelor of Science - Electrical Engineering
  Expected Completion in May 2025

Skills

- Microsoft Office Suite
- Transformer Maintenance
- Soldering
- Electrical Wiring
- Data Analytics
- Email Management
- Organization

Awards

March 2025 | Herff EECE Department
Outstanding Electrical Senior

May 2024 | ITS Tennessee
ITS TN Student Scholarship

March 2024 | IEEE Memphis Section
Leadership Scholarship Award

Summary

Dedicated Electrical Engineering student at the University of Memphis with experience in power systems, transformer maintenance, and research currently working for the Tennessee Valley Authority. Passionate about optimizing electrical systems, STEM education, and mentoring future engineers.

Experience

Electrical Engineering Intern *Sept 2024–March 2025*
Tennessee Valley Authority

- Coordinated with engineers to plan outage schedules and prioritize daily tasks
- Engaged with engineering to gain experience with low and medium voltage motor controls and solenoid

Electrical Maintenance Intern *May 2024-August 2024*
Nucor Steel Arkansas

- Installed over 20 stress cones for breakers and transformers
- Researched and installed an IR window to ease maintenance for technicians for better visibility
- Planned and implemented times for transformer inhibitor installation

Power Engineering Intern *May 2023-August 2023*
Nucor Steel Memphis

- Performed maintenance testing on spare transformers to check the system's usability
- Installed stress cones on cable wires for breakers and transformers
- Conducted oil samples on the electric arcing furnace transformer to assess acetylene buildup

Manufacturing Intern *June 2022-August 2022*
Hyosung HICO

- Implemented a barcode system to track transformers using Excel spreadsheets to reduce misplacement
- Uploaded bolts, wiring, and bushing inventory through SAP software
- Communicated with engineers over inventory discrepancy

References

Dr. Stephanie Ivey
University of Memphis
Title: Professor
Email: ssalyers@memphis.edu

Dr. Aaron Robinson
University of Memphis
Title: Associate Professor
Email: alrobins@memphis.edu