Dillyn Duke

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EDUCATION

James Madison University, Harrisonburg, VA
Bachelor of Science in Engineering, ABET Accredited May 20XX
Related Coursework:

- Engineering Project Management I & II along with a six-course design sequence. Curriculum includes a two-semester sophomore design project, and a four-semester Capstone Design Project.
- Thermal Fluid Sciences I & II, Materials and Mechanics, and Circuits and Instrumentation courses are taught from both science and design perspective through labs and design projects. Courses taken towards general business minor to become a well-rounded professional.

PROGRAMMING LANGUAGES AND TECHNOLOGIES

Python (Advanced), MatLab, LabVIEW, GREET (Advanced), SimaPro (Developing), AutoCAD
Tableau, Windows Office Suite, OSX, Windows

DESIGN PROJECT EXPERIENCE

James Madison University, Harrisonburg, VA

Kawneer/Alcoa Energy Reduction
Treasurer/ Facilitator August 20XX – Present

- Manage a budget of $2000, consult and work along a certified LEED AP to perform energy analysis of the Kawneer of Harrisonburg, VA office building. Utilized grant funds from Kawneer to purchase Kawneer products and build sensors for renovations with no costs to budget.
- Allocate project funds for thermally broken windows and doors, solar shades, and light shelves. Thermocouples and calibrated photodiodes built to test performance of building elements before and after renovations. Testing to validate energy reduction by regulating heat transfer and monitoring daylight from outside.

Human-Powered Vehicle Design
Project Manager August 20XX – May 20XX

- Led a diverse 10-member design team to deliver client a beta prototype. Professionally led multiple presentations to update stakeholders throughout the process, including a final presentation and supporting portfolio documenting all design decisions and justifications.
- Key highlights included testing physical models for user interaction, allowing for geometry to be finalized in SolidWorks.

LEADERSHIP

Madison Engineering Leadership Program
First-year Student Mentor/Teaching Assistant August 20XX – Present

- Apply leadership theories and approaches towards the engineering profession.
- Lead weekly class sessions of a team in *Engineering 101: Engineering First Year Student Seminar* to inspire successful use of the human-centered design process during a semester-long system analysis project.
- Collaborate with the Residential Learning Community, a group of 27 first year engineering students, as they design and test a bio-inspired design to enhance learning of second and third grade students in the Rockingham/ Harrisonburg community.

PROFESSIONAL EXPERIENCE

RMF Engineering, Selbyville, DE
Intern, Mechanical & Electrical Design May – August 20XX

- Designed and delivered mechanical and electrical contract documents for commercial building projects to be sealed under supervision of a Professional Engineer. Projects included 2 oceanfront hotels, 1 elementary school, and 3 office buildings.
- Calculated HVAC and equipment loads to size equipment, ductwork, and piping systems. Designed receptacle and lighting circuits to create panel schedules using Excel. AutoCAD and Revit used to create system piping layouts on floor plan.

Storage Squad, Philadelphia, PA / Washington, DC
Logistics and Operations Intern May 20XX – August 20XX

- Utilized customer service, management and organizational skills for a student-centered storage service on college campuses.
- Led team of 6 to complete pick-ups that required navigation through populated cities, quick acquisition, billing, and safe storage of customer goods.

Eastern Shore Refrigeration, Salisbury, MD
Sheet Metal Fabrication / Installation & Technician Assistant June 20XX – August 20XX

- Critically thought through the design and operation of commercial and residential HVAC/R and ventilation systems.
- Developed strong work ethic during project experience in the construction of commercial and residential buildings.