

Dawson Allen

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Objective:	A summer internship in the field of structural engineering during pursuit of my post-graduate degree	
Education:	Bachelor of Science in Civil Engineering, May 2021 Master of Science in Civil Engineering, December 2021 Rose-Hulman Institute of Technology, Terre Haute, IN	3.42/4.0 GPA
Skills:	<ul style="list-style-type: none">▲ <u>Technical Skills/Applicable Courses</u>: Finite Element Analysis, Structural Dynamics, Matrix Methods for Structural Analysis, Structural Mechanics I & II, Connections & Detailing, Statics, Dynamics, Mechanics of Materials, some minor coding experience with C++ and HTML▲ <u>Software</u>: Bluebeam, AutoCAD, Revit, RAM Structural System, RISA, Enercalc, SAP2000, Mathcad, ArcGIS▲ Prescriptive structural design based on ASCE 7, IBC, ACI, AISC, etc.▲ <u>Presentation skills</u>: presented to Carmel City Council, City Directors and private consulting firms	
Experience:	KPFF Consulting Engineers, St. Louis, MO <i>Structural Engineer Intern</i>	Summer 2020
	<ul style="list-style-type: none">▲ Gained knowledge of structural building design/construction processes (renovation & new construction).▲ Provided structural design criteria and calculations for storm shelter based on ASCE 7, ICC 500, IBC.▲ Performed structural calculations of seismic mass & seismic force distribution for historic renovation.▲ Performed design of welds, base plates, cast-in anchors, wood framing, beams, columns, & other miscellaneous structural items.▲ Visited construction sites to assist in structural evaluation and produce assessment reports.▲ Reviewed structural shop drawings.	
	ARCO National Construction, St. Louis, MO <i>Project Manager Intern</i>	Summer 2019
	<ul style="list-style-type: none">▲ Assisted project managers in design coordination and review, project cost analysis, construction scheduling, permitting, communication with project stakeholders and subcontractors.▲ Produced subcontract agreements, including scopes of work.▲ Coordinated bid information distribution, collection, review, and award processes.▲ Reviewed project drawings for: comprehensive understanding of project scope, design revisions, reduced conflicts among drawings.	
	City of Carmel Engineering Department, Carmel, IN <i>Intern</i>	Summer 2018
	<ul style="list-style-type: none">▲ Performed Street Light Study, analysis of current streetlight billing/technology and produced an engineering report of analysis completed▲ Collaborated with city departments to maximize efficient administrative processes through “smart” technologies and automated payment methods▲ Gained knowledge of specific municipal government processes and objectives▲ Observed various construction methods and procedures (hydrodemolition, bridge rehabilitation, culvert replacement, lime stabilization, roundabout installation, etc.)	
Activities & Honors:	<ul style="list-style-type: none">▲ American Society of Civil Engineers (ASCE), President▲ Resident Assistant, Rose-Hulman Residence Life▲ Rose-Hulman Men’s Indoor and Outdoor Track and Field Team, All-Conference▲ ASCE Indiana Section Student Award 2020, recipient▲ RHIT Student Affairs Committee, Student Representative▲ Rose-Hulman Student Government Association (SGA), Secretary 2019-20▲ Jim Diehl Memorial Scholarship (RHIT), Recipient, 2019-20▲ Cecil T. Lobo Civil Engineering Scholarship (RHIT), Recipient, 2019-20▲ Camp Barnabas, Missionary, Summers: 2012 – 2017	
Interests:	<ul style="list-style-type: none">▲ Mountain biking, running, hiking, snowboarding, camping, & nearly all outdoor activities.▲ Travel – I’m always excited to visit new places!	