

Dawson Allen

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Education:	Bachelor of Science in Civil Engineering, May 2021 Rose-Hulman Institute of Technology, Terre Haute, IN	3.47/4.0 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, Advanced Solid Mechanics, Bridge Engineering, Statics, Dynamics, some minor coding experience with C++ and HTML▲ <u>Software:</u> Bluebeam, AutoCAD, Revit, RAM Structural System, RISA, Enercalc, SAP2000, Mathcad, ArcGIS▲ <u>Prescriptive Structural Design</u> 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 ACI, 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 & Involvements:	<ul style="list-style-type: none">▲ American Society of Civil Engineers (ASCE), Chapter President 2020, Chapter Secretary 2019▲ American Concrete Institute (ACI), Student Member▲ American Institute of Steel Construction (AISC), Student Member▲ Resident Assistant, Rose-Hulman Residence Life Staff▲ Rose-Hulman Men’s Indoor and Outdoor Track and Field Team, All-Conference▲ RHIT Student Affairs Committee, Student Representative▲ Camp Barnabas, Missionary, Summers: 2012 – 2017	
Honors & Awards:	<ul style="list-style-type: none">▲ ASCE Indiana Section Student Award, Recipient 2020▲ Rose-Hulman ASCE Alumni Award, Recipient 2020-21▲ Mark Shelton Hannig Scholarship, Recipient 2020▲ Cecil T. Lobo Civil Engineering Scholarship, Recipient, 2019 & 2020	
Personal 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!	