

Dawson Allen

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Personal Website: <https://dawsonallen.github.io>



Education: **Bachelor of Science in Civil Engineering, May 2021** 3.47/4.0 GPA
Rose-Hulman Institute of Technology, Terre Haute, IN

Skills:

- ▲ Technical Skills & Applicable Courses: 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
- ▲ Software: Bluebeam, AutoCAD, Revit, RAM Structural System, RISA, Eneccalc, SAP2000, Mathcad, ArcGIS
- ▲ Prescriptive Structural Design based on ASCE 7, IBC, ACI, AISC, etc.
- ▲ Presentation Skills: presented to Carmel City Council, City Directors, and private consulting firms.

Experience: **KPF Consulting Engineers, St. Louis, MO** Summer 2020
Structural Engineer Intern

- ▲ 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 Summer 2019
Project Manager Intern

- ▲ 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 Summer 2018
Intern

- ▲ 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:

- ▲ American Society of Civil Engineers (ASCE), Chapter President 2020, Chapter Treasurer 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:

- ▲ 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:

- ▲ Mountain biking, running, hiking, snowboarding, camping, & nearly all outdoor activities.
- ▲ Travel – I’m always excited to visit new places!