

## CHRISTOPHER R. CATTRON

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### EDUCATION

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- 2019 Missouri University of Science and Technology (Missouri S&T)  
**Master of Science in Civil Engineering** (GPA: 3.9/4.0)  
*Certification in Contemporary Structural Engineering*
- 2018 Missouri University of Science and Technology (Missouri S&T)  
**Bachelor of Science in Civil Engineering** (GPA: 3.3/4.0)

### RESEARCH EXPERIENCE

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- 2018 **Research Assistant**  
Department of Civil, Architectural, and Environmental Engineering – Missouri S&T
- Prepare test specimens and perform tests in accordance with ASTM standards
  - Collect and prepare data for submission to research team lead
  - Maintain condition of laboratory station and laboratory equipment

### PROFESSIONAL EXPERIENCE

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- 2019 **Engineer Intern**  
Larson Engineering, Inc. (St. Louis, Missouri)
- Prepared structural design calculations and structural drawings for pre-fabricated steel and aluminum buildings including guard booths, equipment enclosures, etc.
  - Utilized RISA-3D to model structural systems and analyze static loads
  - Designed using the latest American codes and standards.
  - Created and revised MathCAD calculation templates for use in the design of aluminum facade structural members and curtain-wall systems.
- 2017 **Structural Engineer Intern**  
Great Rivers Greenway (St. Louis, Missouri)
- Performed field visits to bridge/structural assets throughout greenways in region to gather data, record observations, collect measurements, and take photographs.
  - Collected and uploaded relevant plans, drawings, and other documents for each structural asset
  - Modified bridge layer in GIS to better organize available data
  - Drafted a guide on the use and organization of the GIS bridge layer
  - Presented summary of findings in an oral presentation and detailed findings in a written report
- 2015 **Project Engineer Intern**  
Concrete Strategies, Inc. (St. Louis, Missouri)
- Oversaw site work for a concrete restoration project in St. Charles, Missouri

- Detailed project objectives and timeline, with assistance of Project Manager
- Tracked amount of removal, grading, and pouring that occurred daily
- Interacted with public, city inspector, and sub-contractors courteously and professionally

## OTHER EXPERIENCE

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2019 – Present

### **Resident Director**

Missouri S&T Residential Life Department (Rolla, Missouri)

- Supervise a staff of 20 student leaders, including 15 Resident Assistants (RAs), four Senior RAs, and one Head Resident
- Oversee the operations of a residence hall with an occupancy capacity of almost 700 residents that predominantly houses first and second-year college students
- Respond to emergency and crisis situations working cooperatively with University Police, Counseling Services, and other campus staffs
- Serve as a Conduct Officer and an Advisor to local student hall government
- Implement a residential curriculum for student development in the residence halls

2018 – 2019

### **Recycling Coordinator**

The Community Partnership (Rolla, Missouri)

- Managed a textile and salvage clothing recycling program for a not-for-profit thrift store
- Recruited, trained, and supervised volunteer groups of up to 50 volunteers
- Processed clothing donations and prepared salvage clothing for baling
- Oversaw a waste reduction program responsible for diverting over 45 tons of salvage textiles from the landfill
- Reduced the amount of textile waste that goes to the landfill by baling and selling salvage clothing and increasing clothing sales in-store
- Coordinated the spending of grant-acquired funds to purchase shelving, bins, and storage structures to contain off-season clothing

2017 – 2018

### **Head Resident**

Missouri S&T Residential Life Department (Rolla, Missouri)

- Co-supervised a student-staff of approximately 15 student leaders
- Planned and led training activities; implemented educational plans to support the residential curriculum and advance the department's learning goals.
- Facilitated regular one-on-one meetings with staff members, providing regular feedback regarding administrative and community development expectations
- Coordinated scheduling and maintained residence hall operation records
- Supported hall government by attending meetings and developing working relationships with executive board members
- Served as a resource to student-staff members as they developed and grew in their positions

- 2017                      **Senior Resident Assistant**  
Missouri S&T Residential Life Department (Rolla, Missouri)
- Directed a mentor group of three first-year Resident Assistants
  - Assisted in training and development of first-year staff members
  - Developed and led team-building activities
  - Areas of training include community building, work-school balance, educational programming, conflict mediation, policy enforcement, and more
  - Planned and facilitated staff selection group activity as part of staff hiring process
  - Manage all duties associated with the Resident Assistant position
- 2015 – 2016            **Resident Assistant**  
Missouri S&T Residential Life Department (Rolla, Missouri)
- Led students in addressing issues, directing them to appropriate resources
  - Create, plan, prepare, publicize, and lead hall programs targeting academic success, personal, professional, and social development, and community building
  - Connect with residents and encourage involvement; foster a sense of community
  - Resolve conflicts safely and effectively while enforcing hall policy
- 2014 – 2015            **Floor Governor / HIRC Committee Member**  
Residential College Association (RCA) – Missouri S&T (Rolla, Missouri)
- Debated, discussed, voted on, and passed budgets and legislation for the benefit of the residents of the Residential Colleges
  - Worked cooperatively with RAs to improve well-being of all residents in the halls
  - Voiced the concerns of residents to the RCA body or RAs
  - Acted as role-models to encourage good floor conduct and behavior
  - Collaborated with members of the Hall Improvement and Retention Committee (HIRC) committee to allocate funds for improvements of the Residential Colleges
- 2014                      **Design Team Member**  
Steel Bridge Team – Missouri S&T (Rolla, Missouri)
- Worked cooperatively with other team members to design a 1/10 scale model steel bridge to compete against other teams from universities across North America
  - Considered real world engineering issues such as spatial constraints, strength, serviceability, fabrication and erection processes, safety, aesthetics, and cost
  - Learned use of structural analysis and design software STAAD.Pro
- 2014                      **Receiver/Stockier/Cashier**  
Society Saint Vincent de Paul Thrift Store (St. Charles, Missouri)
- Provided courteous and welcoming customer service; responded patiently to customer complaints and concerns.
  - Received, sorted, priced, and stocked donations according to store standards; rotated stock as necessary

- Managed cash register with integrity and accuracy
- 2013      **“En français à Québec” French Summer Program Participant**  
Collège Saint-Charles-Garnier (Québec City, Québec)
- Adapted successfully to new culture and living environment
  - Built relationships and communicated effectively with people of diverse interests, values and perspectives
  - Improved French language skills through daily interactions with local people and French-spoken classes
  - Attained valuable historical, cultural and political knowledge of French Canada through formal tours, social gatherings, and independent research
- 2011 – 2014      **Tennis Instructor**  
Craigwell, Inc. (St. Charles, Missouri)
- Provide Instructed individuals or groups of children/adolescents in tennis rules, strategy, and technique.
  - Worked with children and adolescents aged 4 to 17.
  - Assisted with court maintenance and equipment upkeep.

## HONORS AND AWARDS

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| 2020        | Davy Jones Locker Award – Thomas Jefferson Hall Association – Missouri S&T   |
| 2019        | Best Presentation – Missouri S&T Chapter of Chi Epsilon National Honor Society – <i>“Seismic Vulnerability and Retrofitting of Unreinforced Masonry Buildings”</i> |
| 2019        | Initiated Member - Missouri S&T Chapter of Chi Epsilon National Honor Society  |
| 2018        | Bronze Pin – National Residence Hall Honorary – Missouri S&T   |
| 2018        | Distinguished Service Award – Missouri S&T Residential Life  |
| 2018        | 4 Year Award – Missouri S&T Residential Life   |
| 2017        | Dean’s List – Missouri S&T Department of Civil, Architectural, and Environmental Engineering   |
| 2016 – 2017 | Aaron and Zelda Greenberg Scholars Program - Missouri S&T Department of Civil, Architectural, and Environmental Engineering  |
| 2015 – 2016 | Joseph Senne, Civil Engineering Scholarship - Missouri S&T Department of Civil, Architectural, and Environmental Engineering                                       |
| 2014 – 2016 | Excellence Scholarship – Missouri S&T  |
| 2014 – 2016 | Curators Scholar Scholarship – Missouri S&T  |
| 2014 – 2015 | Karl Hasselmann Scholarship – Missouri S&T   |
| 2014 – 2018 | Bright Flight Scholarship – Missouri Higher Education Academic Scholarship   |
| 2014        | Most Outstanding Graduate: Physics Department – Francis Howell North   |
| 2014        | Most Outstanding Graduate: French Department – Francis Howell North  |
| 2013        | Student of the Week - Overall Program – “En français à Québec” French Summer Program   |
| 2013        | Student of the Week - Advanced Class – “En français à Québec” French Summer Program  |

2013 Outstanding Student - Explore Québec didactic workshop – “En français à Québec”  
French Summer Program

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## LICENSES AND CERTIFICATIONS

2018 Engineer Intern (E.I.) - Missouri Board For Architects, Professional Engineers,  
Professional Land Surveyors and Professional Landscape Architects – Certification  
number EI-2018026008

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## SOFTWARE EXPERIENCE

- RISA-3D Structural
- AutoCAD
- MathCAD
- Microsoft Office
- ANSYS
- HTML/CSS
- Python

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## MEMBERSHIPS

- American Society of Civil Engineers – Associate Member, since 2020
- Chi Epsilon National Honor Society – Alumni, since 2019

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## VOLUNTEERING

2019 The Community Partnership Resale Shop – Salvage Bale Volunteer  
2017 Second Saturday Service – Audubon Trails Nature Center – Student Volunteer  
2016 MLK Day of Service 2016 – H.O.P.E. House – Student Volunteer  
2015 Hearts for Malawi – Volunteer Server, Volunteer Attendant  
2013 - 2014 Success Leader – Algebra Tutor, Freshman Mentor – Francis Howell North HS  
2010 - 2013 F.U.E.L. (travelling performing arts group, service team)

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## LANGUAGES

- English (native)
- French (intermediate written and conversational oral)