## Michael Desch, EIT

3201 S. Dearborn St, Office 220B, Chicago, IL 60616 mdesch@hawk.iit.edu 260-418-2652

260-418-2652	
Education:	
Illinois Institute of Technology, Chicago, IL	Aug 2014 – Present
<ul> <li>PhD in Civil Engineering with a specialty in Structural Engineering</li> </ul>	Jan 2019 – Present
<ul> <li>Master of Engineering in Structural Engineering (GPA 3.87)</li> </ul>	Jan 2017 - Dec 2018
<ul> <li>Bachelor of Science in Architectural Engineering (GPA 3.87)</li> </ul>	Aug 2014 - Dec 2018
Work Experience:	
Lab Instructor, Illinois Institute of Technology – Chicago, IL	June 2019 – Present
<ul> <li>Teaching Finite Element Analysis Methods using SAP2000</li> </ul>	
Γeaching Assistant, Illinois Institute of Technology – Chicago, IL	Aug 2017 – Present
<ul> <li>Assisted course instructors with grading, student reviews, and presentations.</li> </ul>	
• Structural Analysis I&II, Advanced Analysis, Dynamic Analysis, Non-Linear Analysis	
Facilities Management Apprentice, Federal Reserve Bank - Chicago, IL	Nov 2015 – Dec 2018
<ul> <li>Researched and piloted adoption of Revit life cycle models for new projects</li> </ul>	
<ul> <li>Maintained and updated CAD library and facility plans using AutoCAD</li> </ul>	
Worked closely with building electricians to document and update electrical systems	
<ul> <li>Assisted Project Management Team with projects, plans, and schedules</li> </ul>	
• Managed projects creating custom signage, specialty plans, and new dept. procedures.	
Student Technical Assistant, General Dynamics Electric Boat – Groton, CT	June 2017 – Aug 2017
• Performed stress analysis and design on submarine piping and hanger support systems	
<ul> <li>Coordinated pipe and hanger locations with adjacent systems</li> </ul>	
Academic Experience:	
• Static and dynamic structural analysis (using both linear and non-linear approaches)	
Structural design using steel, concrete, and timber	
Design considering seismic forces	
Building façade rehabilitation & design	
• Research projects on analysis methods for fatigue, international seismic design codes, an	nd STEM education
Recent Projects:	
Architectural Engineering Laboratory, Design and Planning	Aug 2017 – Present
-In conjunction with Professors, CAE Dept. & IIT Facilities Dept.	<b>C</b>
ASCE Student Steel Bridge Competition	Aug 2015 – May 2018
-Captain in charge of Design, Planning, and Fabrication	
-Awarded 1st place nationally in lightness 2018	
-Awarded 3 <sup>rd</sup> place nationally in construction speed 2016	
Software Skills:	
<ul> <li>Modeling and Analysis (CSI SAP2000, Autodesk AutoCAD, Autodesk Revit, Autodesk</li> </ul>	Robot, Open Studio),
Programming (C, Python, Java, MATLAB, VBA), Web Development (HTML, CSS, PH	•
Society Memberships:	
Member of Chi Epsilon, IIT chapter	Jan 2019 – Present
-Chapter President	May 2019 – Present
Member of ASCE, IIT student chapter	Aug 2014 – Present
-Executive Board & Events Coordinator 2017	Nov 2016 – Nov 2017
-Steel Bridge Captain 2017, 2018	May 2016 – May 2018
Member of SEAOI, IIT student chapter	Aug 2017 – Present
	2