

Amir Louaibi

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EDUCATION

- **University of Illinois at Chicago (UIC) Bachelor of Science in Civil Engineering.** Expected: May 2022

Projects:

Honors College Capstone: Researching the feasibility of 3D printed homes by investigating different materials and print methods that can be used to 3D print multi-level homes.

Senior Design: Conducting a structural investigation on the collapse of the Surfside Condominium by developing/testing collapse theories and providing design/maintenance recommendations.

ASCE Concrete Canoe competition and AISC Steel Bridge competition: Team member of both major National competitions for the 2021-2022 year.

SKILLS

- **Computer/Software experience:** MATLAB, AutoCAD, C++, Geostudio R2, HCS7, 3-D modeling/printing, SolidEdge, Sketchup, Revit, Quickbooks, Excel proficiency,
- **Languages:** Arabic proficiency, Conversational Spanish.

PROFESSIONAL ASSOCIATIONS AND WORK HISTORY

- **American Society of Civil Engineers (ASCE)—Vice President** May 2021 - Current.
 - Overseeing internal operations by direct communication with team captains and other organization officers.
 - Helping to achieve financial and competition goals through fundraising and recruitment of team leaders.
 - Conducting organization events and meetings.
- **American Society of Civil Engineers (ASCE)—Team captain** January 2020 - May 2021
 - Board member as Sustainable Solutions Chair.
 - Team captain and project manager for ASCE's Sustainable Solutions Competition, Tactical Urbanism Challenge.
 - Designed an outdoor recreation area that educates users on sustainable construction and allows for a variety of socially-distant activities in an outdoor setting. The design promotes sustainable measures such as rain gardens, solar panels, water rain storage tanks, and sustainable construction material and methods for sidewalks and pathways.
 - Designed a sustainable bus-stop using hemp boards as a sustainable material.
 - Team member of the Blue Sky Competition, Smart Mobility for Smart Cities: Transforming the Way We Live.
 - Designed a smart mobility concept of connecting driver's car speed and traffic data into an application that alerts drivers to slow down or speed up to reduce traffic snakes and delays at intersections.
- **Illinois Department of Transportation (IDOT) —Civil Engineer Intern** May 2020 - August 2020
 - Collaborated with a team of civil engineers and technicians on a state-funded project that involved installing a brand new sewer system and paving a new two-way four-lane concrete highway with a paved center median.

- Conducted various concrete quality tests that included air content, slump, and compressive strength.
- Performed engineering inspections of systems operations, structures, and facilities during construction.
- Assisted field supervisors with project layout using GPS rovers which included setting control lines, surveying, construction drawings, verification of field conditions, and quality control.
- **University of Illinois (UIC) — Research Assistant** May 2020 - August 2020
 - Worked on proposing a “complete streets” project and new bike/walking paths in and around UIC’s campus.
 - Conducted literature reviews to collect and analyze data from various guidelines such as *Manual on Uniform Traffic Control Devices* issued by the Federal Highway Administration and *Policy on Geometric Design of Highways and Streets* issued by the American Association of State Highway and Transportation Officials.
- **NASA Community College Aerospace Scholar (NCAS)— NCAS** October 2019
 - Selected to the NASA Community College Scholar (NCAS) program which includes a 5-week course and an in-person learning experience at NASA Langley Research Center to work with NASA scientists and engineers.
 - Designed a unique Mars rover with each specific component in SolidEdge and 3D printed it.
- **Harper Society of Engineers— Events and Materials Manager** December 2018 - January 2020
 - Helped design and manufacture a Mars rover for NASA’s Human Exploration Rover Challenge.
- **Montway Auto Transport, Schaumburg, IL— VIP-Department Executive** March 2018 - September 2019
 - Negotiate and dispatch car transport deals with truck drivers, brokers, and clients.
 - Supervise the route and status of field units to prioritize their daily schedule.
 - Provide quotes and book orders for international and domestic shipments.
- **24 SOS Towing / Jidd Motors, Des Plaines, IL— Dispatch Supervisor** November 2016 - March 2018
 - Helped to start a brand new towing business (24 sos towing) for the car dealership (Jidd Motors).
 - Handle all financial transactions and other company expenses.
 - Create and promote new marketing strategies and advertisements for the company.
 - Responsible for booking all incoming cars from different auctions and locations all across the U.S. .

VOLUNTEER / EXTRACURRICULAR

- **Illinois Innovation Network's Sustainability Research Conference** October 2020
 - Presented my research on Sustainable solutions on Chicago’s transportation issues relating to the UIC campus.
- **Panathinaikos Chicago-NPSL- Captain and Academy Coach**
 - Captain and player of a Semi-pro soccer team that competes in the 4th division of the American soccer leagues.
 - Academy coach for two teams consisting of under 8 years-old and 10 year-olds
- **Oakton Community College- Men’s Soccer Team** August 2016 - August 2018
 - College athlete as a part of the men’s soccer team for OCC. As a versatile and adaptable player, I scored 7 goals and 4 assists in two years playing as a forward and a defender.
- **Harper College— STEM demonstrations for Middle School kids** August 2019 - January 2020
 - Give demonstrations of a scanning electron microscope (SEM) as well as a physics presentation to local Middle School students along with a physics professor.