# Harry Craik

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## Education

**Florida Institute of Technology, Melbourne, FL** May 2024
Ph.D. Civil Engineering, GPA 4.0
*Dissertation: Design of Double Composite Box Girder Bridges with Confined Concrete*

**Florida Institute of Technology, Melbourne, FL** Dec 2021
Master of Science Civil Engineering, GPA 4.0

**Florida Institute of Technology, Melbourne, FL** May 2020
Bachelor of Science Civil Engineering, GPA 3.94

## Skills

AutoCAD, Sketchup, SOFiSTiK, Grasshopper, ANSYS, MathCAD, Microsoft Office, Technical writing, MatLab

## Experience

**Florida Institute of Technology, Melbourne, FL** May 2020 - Present
*Graduate Research Assistant*

- Performed a literature review of AASHTO, Eurocode and Australian Standard codes and Composite bridge research papers for helpful information
- Conducted multiple meetings with various industry experts
- Evaluated calculations for strength and cost analysis of double composite bridges
- Presented Double composite bridge information to Florida Department of Transportation (FDOT) representatives through deliverable reports and presentations
- Created detail drawings for the double composite bridge setup and testing components
- Developed Finite Element bridge models for analysis

**Packman Lucas, London, England** Summer 2019
*Structural Engineering Summer Intern*

- Created SketchUp drawings from architectural drawings for ease of interpretation for clients and contractors
- Performed analysis and design of steel, timber, and reinforced concrete beams and columns for ongoing projects as per Eurocode standards by hand and using Tekla Tedds
- Shadowed a project engineer on multiple residential building site visits

**Florida Institute of Technology, Melbourne, FL** August 2020 - Present
*Teaching Assistant: Civil Engineering Materials Lab, CVE 3013, Fall 2020 & 2021*

- Conducted lab tests to quantify the behavior of steel, aluminum, timber and concrete
- Developed the ability to apply ASTM specifications in testing
- Designed concrete mix to meet specifications

*Teaching Assistant: Construction Measurements Lab, CVE 2083, Spring 2021 & 2022*

- Presented practical applications for the measurement of distances, elevations, and angles
- Demonstrated how to use various surveying equipment and their limitations
- Analyzed and interpreted testing data

*Teaching Assistant: Hydraulics Lab, CVE 3033, Fall 2022*

- Introduced Hydraulics and Hydrology principles to students
- Demonstrated various laboratory experiments to inform students in various hydraulics and hydrology principles.
- Analyzed and interpreted testing data and their errors

## Honors

- ASCE Space Coast Branch Graduate Student of the year, 2021
- Outstanding Senior (Civil Engineering), 2019
- Distinguished Student Scholar, 2019
- Florida Tech Intercollegiate Basketball Team NCAA Division II August 2017 - 2020
- Dean's List Florida Tech 2016-2020
- Scholar-Athlete of the Year for Men's Basketball (2017, 2019)

## Co-curricular Activities

- American Society of Civil Engineers (ASCE)
- Student-Athlete Advisory Committee (SAAC)
- Florida Tech Surf Club Member