



**Anders Pedersen**  
Civil Engineer

## Personal Information

**Nationality:** Danish

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## Social Profiles

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## Skills

FE Analysis	★★★★★★
Excel	★★★★★★
Python	★★★★☆
Django	★★★★☆
HTML, CSS, JS	★★★★☆
SQL	★★★★☆
SwiftUI	★★★★☆

## Courses

[CS50x \(Harvard University\)](#)

[Java Fundamentals](#)

[Unity Course](#)

[SwiftUI Course](#)

## Profile

Driven by honesty and empathy, I thrive in agile, collaborative environments that encourage innovation. I am recognized for improving workflows and automating processes through my strengths in teamwork, creativity, and initiative.. I'm adaptable and eager to learn - if there's something I don't know, I'll do my best to learn it quickly. Whether working independently or with a team, I value open communication and support to refine ideas. A good work-life balance helps me stay focused and productive. I seek a team that values integrity, openness, and continuous growth, and I aim to contribute to the company's goals..

## Work Experience

### **SYSTRA - Consultant Engineer**

December 2021 – June 2024

#### **SOFiSTiK Implementation:**

Introduced and implemented SOFiSTiK (Finite Element Analysis Software) across the engineering team. I also focused on training others, and held a course for colleagues, to automate tasks using SOFiSTiK's built-in coding language, CADINP.

#### **Department Management:**

Assisted in managing our Indian department, ensuring clear communication, mutual understanding of agreements, and meeting project deadlines. Conducted weekly check-ins with the team..

#### **Project Management:**

Further developed my project management skills, ensuring alignment between clients and our team on project scope and timelines, with a focus on detail-oriented execution.

#### **Finite Element Analysis (FEA):**

Continued to perform advanced FEA (as in my time in Rambøll below), simulating bridge structures and loads to optimize material use for sustainability. I also supported this work with a variety of analytical calculations.

#### **Python Development:**

Developed custom calculation tools in Python to streamline processes within our department, switching out the old Excel sheet calculations. Furthermore, I worked on automating report writing, ensuring standardized layouts and format for our calculation reports.

### **RAMBØLL - Consultant Engineer**

February 2015 – December 2021

#### **Project Management**

I coordinated tasks with our Indian Department, managing smaller projects independently, utilizing Microsoft Project to estimate timelines, from initial calculations to final design, and on-site supervision.

#### **Finite Element Analysis (FEA)**

Conducted detailed FEA and simulations of complex structures using LUSAS and SOFiSTiK, automating processes with CADINP for structural geometry, loads, and results. Gained expertise in quickly performing hand calculations to assess bridge design viability. The goal was always to optimize material usage for sustainability.

#### **Python and C# Automation**

Replaced local Excel files for complex calculations with modular Python scripts to improve efficiency. Collaborated with a colleague to develop a custom GUI in C#, streamlining calculations that were previously managed by less flexible software.

#### **Site Supervision**

Supervised on-site construction to ensure compliance with planned designs and adherence to project specifications, communicating directly with the contractors.

#### **Drawing Production Coordination**

Provided input to CAD specialists and coordinated drawing production between teams in Denmark and India.

#### **Quality Assurance & Document Control**

Conducted quality assurance of colleagues' calculations and drawings, ensuring smooth document control through ProjectWise.

## Education

### **M.Sc. in Structural Mechanics**

2016–2019 - DTU Lyngby

### **B.Sc. in Structural Mechanics**

2013–2016 - DTU Lyngby