**SIRIN OZKAN**



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**About**

During the undergraduate period, I devoted myself to trying to understand the theoretical, practical and ethical requirements of the profession. I made an effort to play a key role in orientation and integration in design projects carried out as a team work. I achieved high success in these projects with the team. The research I have done and the experiences I have gained with multiple laboratory studies have formed the basis of my interest in academic studies. On a static project basis, I am an engineer focused on improving myself in order to find fast, practical solutions and reliable analysis of the problems encountered. Although open to criticism as well as communication, I have a deliberate approach that loves to go into the details of the work done. In the next 10 years, I aim to work with visionary companies to invest in my knowledge and become an engineer in the sector in the field of Geotechnics.

**Experiences**

**Sima Insaat (2019 - September / 2020 - February) - Intern**

The things I learned during my internship at Sima Insaat had an undeniable effect on my school life and my knowledge in terms of career. I believe that the static work I've done here has improved me a lot.

* Design and controls of the steel frame roof system,
* Quantity Studies,
* Research on earthquake resistant building design principles,
* Studies on column, beam, slab, foundation reinforced concrete calculation,
* Examination and analysis of irregular structures on SAP2000 and ETABS programs,
* Section-view and reinforcement drawings of a multi-storey building.

*Keywords: AutoCAD, ETABS,* Quantity Studies*, SAP2000, Sta4CAD*

**Eren İnşaat Proje(2019 - August) - Intern**

Eren Proje is a dynamic construction company with 3 engineers. I worked in Eren Construction for about 1 month. The Civil Engineers we worked with didn't hesitate to give me responsibility and share their knowledge of the industry. In this way, I believe that they have had the biggest impact on my development in terms of career.

* Cross-sectional work on AutoCAD,
* Column, beam and foundation reinforcement drawings of a multi-storey building,
* Quantifying the multi-storey building and its controls,
* Steel joint modeling and analysis on SAP2000,
* Modeling and analysis of a low-rise building with the help of Sta4CAD program.

*Keywords: AutoCAD, reinforced concrete calculation, SAP2000, Sta4CAD*

**Topography Internship – Istanbul Aydın University (2018 –September)**

After I received the necessary training from the map engineers, I made point calculations by using Nivelman, Mira and various tools to make point elevation measurements. I measured the angles between the selected points on the determined areas with Theodolite. By calculating these points into closed polygons, I calculated the areas between the points using the gauss field method and the binding method. Later, I made accuracy check by comparing with real fields. I have learned the working logic and usage of map measurement tools required for mapping.

*Keywords: Nivelman, Mira, Theodolit, Nivelman level calculation, area calculation*

**Indis Engineering (2018 – March / 2018 August)**

Thanks to the courses I attended at Indis Engineering, I brought my level to a certain level in AutoCAD and SAP2000 programs. Afterwards, I gained basic knowledge in project reading, wood and masonry structures with my volunteer internship. I have learnt that engineering, thanks to the energy and high knowledge of the people I work with, offers a great range of engineering studies.

**Skills**

* SAP2000
* ETABS
* AutoCAD
* MS Office
* Static project reading
* Quantity calculations
* Seismo Signal
* Steel structure connection calculations
* Hand calculation of columns, beams, slab, foundations

**Courses**

* AutoCAD (Udemy-2016)
* AutoCAD (Indis Engineering -2018)
* SAP2000 (Udemy -2018)( Industrial Structure Analysis and Design, Reinforced Concrete Box Culvert Analysis and Design)
* SAP2000 (Udemy -2019)(Reinforced concrete structure with different columns, Steel Building Project)
* ETABS (Udemy -2019)(Reinforced concrete project)

**Education**

**Bachelor**

Istanbul Aydın University – Civil engineering (50% scholarship)

September 2016 - September 2020

3.44/4.00

**Honors - Awards**

- 2016-2017 Academic Year High Honor Certificate (Istanbul Aydın University)

- 2020 Honor Student (Istanbul Aydın University)

- 2015-2016 School Year Top Student Degree (Avcılar High School)

**Projects**

**Design Project of Reinforced Concrete Structures**

Within the project of 130 pages that I prepared within the scope of this project, I made the calculations of a building that is considered as a 6-storey housing project by hand. I made 4 scale drawings including beam detail, column application, floor formwork and foundation detail.

Calculations made within the scope of the project:

* Slab, column, beam pre-dimension calculations
* Static calculation of frame according to 2 different axes
* Earthquake risk calculation according to equivalent earthquake load
* Beam, column reinforced concrete calculations
* Strong column-weak beam investigation
* Basic reinforced concrete and tie beam calculations

**Design of Steel Structures Project**

Within the scope of this project, I designed 3 different buildings with housing numbers of 4,5,3 respectively. I made a 1/50 scale model with column beam layouts and connection drawings.

Stages calculated within the project:

* Calculation of loads on intermediate and main beams,
* Finding loads on beams
* Deflection calculation of intermediate and main beams
* Profile selection of intermediate beams, main beams, columns
* Butt plate-bolt, welded column-beam connection calculations
* Steel cage roof calculation

**Earthquake Resistant Building Design Project**

Within the scope of this project, I examined and analyzed the torsional irregularity, which varies according to the curtain wall location in a reinforced concrete building with 6 and 4 openings, on the ETABS program.

**Design of Soil Structures Project**

In this project, I designed a retaining wall with a height of 5.25m. I made the reinforcement, section and barbakan drawings.

The calculations I made in this project:

* Calculations for static and earthquake situation
* Calculation and critical section effects for loading 1.4G+1.6Q ve G+Q+E
* Rollover and slide controls in case of rising groundwater
* Reinforcement calculations
* Wholesale immigration investigation

**Thesis**

In my thesis titled the investigation of consolidation coefficient on clayey soils, I conducted a study in order to establish empirical correlations between soil index parameters and consolidation coefficient in my study with laboratory tests. I continued my graduation thesis with detailed literature research due to my laboratory studies, which were left unfinished due to a pandemic. I presented my academic studies on this issue as a report. I plan to continue my studies on this subject in my graduate education.

**Seminars**

**Are You Ready for an Earthquake?** – Birol Doyranlı, Halil Ekinci, Seyit İsmail Ulusoy, Yoshinori Moriwaki, Serhat Yılmaz

(Istanbul Aydın University -2019)

**2018 A Brief Overview of the Earthquake Code** – Cevdet Şentürk

(Bayrampaşa - 2019)

**Istanbul and Earthquake Conference** - Ali Bayraktar, Hasan Nokay , Başak Boduroğlu Yazıcı, Prof. Dr. Mehmet Fatih Altan

(Istanbul Aydın University – 2019)

**2018 Earthquake Code Amendments Panel** – Cevdet Şentürk & Neşe Er Zaman

**Beykent United Nations Conference** – I attended the conference, which lasted for 2 days and simulated the United Nations Council, representing the country of Albania.

(Beykent University - 2014)

**Comenius Project** - As part of the project titled “Overcoming Prejudices Through Fairy Tales”, I participated in the 2-week project involving one-week student exchanges. This project, Bulgaria, Romania, took place with the participation of Latvia and Turkey. Within the scope of the project, I successfully completed the presentations I made and the works I attended during my 10 days in Romania. Turkey did promote the Roumanian by hosting a student home for 7 days.

**Languages**

English– Good

German- Beginner

**Hobbies**

Singing, reading books, examining historical artifacts and places and reading publications about them.