

**KONYA FOOD AND AGRICULTURE UNIVERSITY**

**FACULTY OF ENGINEERING AND ARCHITECTURE**

**COMPUTER ENGINEERING DEPARTMENT**

**CENG XX00 (write “2800” or “3800”)**

**SUMMER INTERNSHIP  
REPORT**

**Name Last Name**

**ID Number**

**Performed at**

**Name of the Firm**

**Beginning and End dates**

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Abstract

You should provide a short (no more than 150 words) abstract in your report. This abstract should describe your internship in a few sentences: mainly stating where, what you have done and what you learned. Just a general description.

# Introduction

To use the template, create an empty version of this document (just by double clicking the dot file) and edit the text according to your internship. You should be using relevant styles defined in this template. For example you should use Heading 1 for top-level Section headers and TEXT style for the normal text.

In the introduction section you should make a smooth beginning to the document. This section should include the following information:

* The name of the company and department where you have done your summer internship, the main focus area of the company, and your motivation for choosing this company as the place for your summer internship.
* Brief summary of the work you have done, the motivation behind it, and the significance of the work that you have done in the overall project.
* Explanation of the organization of the rest of the report.

# Company Information

Have a section providing detailed information about the company and department where you performed your internship, its hardware/software systems and resources, its focus and project area, its organization, etc. The name, address, telephone number, email address, and information about the education of your supervisor must be given (including the name of the university and department from which he/she graduated, and the year of graduation). Additionally, you must list the names of your team members and their backgrounds. If you have worked with other interns from for example Industrial Engineering please write this information, as this can be considered as an evidence for multi-disciplinary work.

# Work Done

The number of sections in this part, their titles, and contents depend on the work that you have done and the information you would like to provide. However this part should be at least 1000 words. It should explain the work you have done in your internship.

## X Project

You can use sub-sections to describe different tasks you were assigned to. You are expected to discuss in detail the work you have done, including for example;

* The algorithms/pseudo-code developed.
* Hardware/software environment used.
* Software tools used.
* Design methods used and learned.
* Testing methods and tools used and learned.
* Project management methods and processes followed or observed.
* Any engineering standards that are followed or observed.
* Design, development, documentation and testing participated in or observed.
* Any training received, including seminars attended.
* Any configuration and/or maintenance tasks performed.

## Describing code work

Giving details about a system you have developed is a great idea for your internship report. While this is encouraged, do not just give a figure showing the full source code of the program you have developed. Source code is for compilers or programmers they do not belong in a high level report similar to internship report. However if you really feel as you must include source code, you can use the Appendix section.

In your report you can use Unified Modelling Language (UML) diagrams or simple pseudo-code outlining the work you have done. If the company forbids you to include sensitive information, you should try to add some information that will give us (the evaluators) some sense of what you have done.

## Observations are important as well

While the best way to learn is by doing, you may not always get the chance. So, instead of your experience you can add to your report your observations. Software engineering and the methodologies used in the companies are very important, which you should get used to. Try to understand how the work is done, who decides what to do? How do they discuss it? How do they design it? How is the quality ensured? Try to figure out the roles and duties. When you are writing about the tools or technology do not focus on what they are, but try to justify their use. It is important for you to notice the management and software engineering skills required in your future careers.

## Write about your ideas

You might have received some training during your internship. You can and should discuss the topic you learned. However do NOT just restate what others told you or repeat information you can get from a textbook or other source. Personalize the content by discussing what the topic means for the company, or for a person like you who will pursue a career in computer engineering.

# Conclusion

Have a conclusion section where you summarize the work you have done. Clearly re-state your contribution, what you have learned, experienced and acquired. Be specific in relating these to what you have learned at Konya Food and Agriculture University.

# References

Include any references that you used in the text such as:

1 - Konya Food and Agriculture University, “KONYA FOOD AND AGRICULTURE ÜNİVERSİTESİ ÖN LİSANS VE LİSANS EĞİTİM VE ÖĞRETİM YÖNETMELİĞİ,” 2018.

# Questionnaire

**Operating Systems Used**

Windows  Linux  Mac OS  Other:

**Programming Languages Used**

Python  C  C++  Java  C#  Matlab  R  JavaScript  Ruby  PHP  SQL  Swift  Kotlin   Other:

**Work focus**

Web application development  Game development

Desktop application development  Data science

Mobile application development  Software testing

Embedded development  Security and Network

Database oriented development  Other:

**Courses that are useful to your apprenticeship**

Introduction to Programming (with Python)  Programming Languages

C Programming  Software Engineering

Data Structures (with C++)  Computer Organization

Object Oriented Programming (with Java)  Design and Analysis of Algorithms

Database Management Systems  Other 1:

Computer Networks  Other 2:

**Target Industry**

Government  Defense  Medical  Entertainment  Telecom

E-commerce  Education  Finance  Agriculture  Other:

**Team Profile**

* Number of engineers:
* Number of scientists (i.e. Mathematician):
* Number of other workers:
* High school graduate count:
* University graduate count:
* MS graduate count:
* PhD graduate count:

Read the ‘The Joel Test: 12 Steps to Better Code’ and answer below questions:

* Do you use source control?
* Can you make a build in one step?
* Do you make daily builds?
* Do you have a bug database?
* Do you fix bugs before writing new code?
* Do you have an up-to-date schedule?
* Do you have a spec?
* Do programmers have quiet working conditions?
* Do you use the best tools money can buy?
* Do you have testers?
* Do new candidates write code during their interview?
* Do you do hallway usability testing?