

# BARAKAT BOKHARAIE

Mechanical engineering trainee at *The European Organization for Nuclear Research*

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## PROFILE

Mechanical engineering undergraduate aspiring for an international profile and global impact. Passionate about materials science and mechanical design. Highly-capable leader and team worker from four semester projects. Proficient in a range of engineering disciplines such as strength calculations, FE Analysis and Java. Striving to learn AI technology.

## WORK EXPERIENCE

### Mechanical engineering trainee

**The European Organization for Nuclear Research**

February 2019 – Ongoing

Meyrin, Switzerland

- Generating finite-element based transient simulation models for the *High Luminosity Large Hadron Collider (HL-LHC)*
- Increase efficiency of simulation work flow
- Developing and analyzing Quench Protection Systems

### Student assistant

**Aarhus University School of Engineering**

August 2018 – Februar 2019

Aarhus, Denmark

- Review exam exercises in the course of *Dynamics*
- Correct and grade assignments in the course of *Finite Element Analysis*
- Assembly and maintenance of *blueROV2* water robots
- Arranging and executing workshop for high school students with *blueROV2* robots

### Sales assistant

**Løvbjerg Supermarket A/S**

April 2010 – Februar 2017

Nykøbing Mors and Aarhus, Denmark

- Initially a service employee and then cashier
- Then promoted to manager of the frozen goods department. Responsible for ordering and lling of day-to-day products and cutprice goods and minding the sales statistics

### Substitute teacher

**Dueholmskolen (Local elementary school)**

Januar 2016 – August 2016

Nykøbing Mors, Denmark

- Substitute teacher in all grades of 1<sup>st</sup> through 9<sup>th</sup> grade

## REFERENCES

**Asst. Prof. Torben Almskou**

@ Aarhus University

✉ toa@ase.au.dk

Inge Lehmanns Gade 10  
8000 Aarhus C

**Dr. Ir. Matthias Mentink**

@ CERN

✉ matthias.mentink@cern.com

Espl. des Particules 1  
Meyrin, Switzerland

## MOST PROUD OF



### Nanyang Technological University

Being admitted to one of the highest-ranking technical universities in the world reflects my academic accomplishments and enables me to reach even higher grounds.



### Working at CERN

Working at the biggest and most complex research facility in the world provides knowledge of the newest science and an international profile, which I can exploit in my future career

## SKILLS

Organized

Adaptability

Communication

Time management

Office

MATLAB

LabVIEW

Java

Solidworks

LaTeX

Mathcad Prime

## LANGUAGES

Danish



English



Dari/Persian (Mother tongue)



Turkish



## EDUCATION

**B.Sc in Mechanical Engineering**

**Aarhus University School of Engineering**

February 2017 – June 2020

Completed projects and selected courses:

**4<sup>th</sup> sem.: Construction of refrigerator**

- Instrumentation, thermodynamics and statistics

**3<sup>rd</sup> sem.: Dimensioning of jibcrane**

- Machine elements, FEM, Num. methods

**2<sup>nd</sup> sem.: Fracture analysis in copper tubes**

- Mat. science, calculus, construction methodology

**1<sup>st</sup> sem.: Design of protective case for in-ear headphones**

- Manufacturing processes, problem solving