

# OGUZ OZTOPRAK

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## EXPERIENCE

### Simulation and Optimization Intern

#### BMW Group

May 2019 – Ongoing    Munich, Germany

- Optimization and sensitivity analysis of acoustic simulations.
- Automating optimization and robustness analysis
- Improved understanding of : R, Python, Matlab Vibro-Acoustic simulations, Simcenter, HEEDs, Windows programming.

### Technical Research Assistant

#### Technical University of Munich

March 2018 – ongoing    Munich, Germany

- Python application development for translating various FEM software's input files.
- Development of in-house massively parallel computational fluid dynamics framework.
- Improved understanding of : C++, Python, Object-Oriented Programming, VTK, CMake, OpenMP, MPI

## PROJECTS

### Development of scalable multigrid methods

#### Technical University of Munich/Computation in Engineering Chair

May 2019- August 2019

- Development of scalable multigrid methods for in-house high order finite element framework.
- Preconditioning techniques involving high order adaptive meshes for immersed boundary methods.
- Improved understanding of : Finite Element Method, C++, Object-Oriented Programming, CMake, Boost, Linux, iterative solvers.

### Paraview Post-processor

#### Technical University of Munich/Computation in Engineering Chair

January 2018- November 2018

- Development of a workflow to improve the post-processing times of in-house high order finite element framework
- Improved understanding of : C++, Python, VTK, Linux, scientific visualization.

### Salome Pre-Processor User Interface

#### Technical University of Munich/Statics Chair

January 2018- November 2018

- Development of a UI tool to integrate Salome's pre-processing capabilities into in-house multiphysics framework KRATOS.
- Improved understanding of : Python, QT, Linux.

## MY LIFE PHILOSOPHY

*"I am still learning." Michelangelo*

## ACHIEVEMENTS

**Member of Bavarian Graduate School of Computational Engineering.**  
Membership granted based on academic merit

**DAAD-TEV Masters Scholarship**  
A scholarship awarded for outstanding Turkish students with Bachelors Degree to pursue a Masters Degree in Germany

**BSc. in Civil Engineering with High Honors**  
3.70 / 4.00 GPA

## STRENGTHS

Hard-working    Optimistic    Patient

C++    Python    Finite Element Method

High Performance Computing    Linux

Sensitivity Analysis

Parallel Programming

## LANGUAGES

English    ●●●●●

German    ●●●●○

## EDUCATION

### M.Sc. in Computational Mechanics

#### Technical University of Munich

Sept 2017 – March 2020

### B.Sc. in Civil Engineering

#### Bosphorus University

Sept 2014 – June 2017