Aleksandra **Teska**

NEUROENGINEERING

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Education

Technical University of Munich, Department of Electrical and Computer Engineering   *Munich, Germany*

MASTER OF SCIENCE IN NEUROENGINEERING   *Oct. 2017 - present*

DAAD, German Academic Exchange Service   *Warsaw, Poland*

DAAD - STUDY SCHOLARSHIPS FOR GRADUATES OF ALL DISCIPLINES, 2017/18   *Oct. 2017 - Sep. 2019*

- Awarded in April 2017

Warsaw University of Technology, Faculty of Mechatronics   *Warsaw, Poland*

B.SC. IN BIOMEDICAL ENGINEERING   *Oct. 2012 - Feb. 2016*

- Thesis topic: "Test stand for measurement and recognition of upper limbs EMG signals, in order to initialize exoskeleton movement procedure." Degree finished with A grade.
- Warsaw University of Technology Rector Scholarship for study achivements in the academic year 2015/2016

Experience

Ludwig Maximilian University, Biozentrum   *Munich, Germany*

RESEARCH ASSISTANT, PROF. ANDREAS HERZ LAB   *Aug. 2018 - present*

- Depolarizing after potential cell model development
- Inference application on model

Ludwig Maximilian University, Biozentrum   *Munich, Germany*

RESEARCH ASSISTANT, PROF. SIROTA LAB, RATCAVE PROJECT   *Mar. 2018 - Aug. 2018*

- Working with graphic package Ratcave
- Data analysis for visual acuity tests
- Python developer

CERN, BEAM Departament   *Geneva, Switzerland*

TECHNICAL STUDENT, SOFTWARE DEVELOPER , WORKING ON MAD-NG PROJECT   *Mar. 2016 - Apr. 2017*

- Testing and developing code for new version of the software, including algebra and range modules
- Developing ploting system and user help
- Checking for numerical stability of developed software
- Programming in Lua, Creating users help

Planet of Robots   *Warsaw, Poland*

ROBOTICS INSTRUCTOR   *Sep. 2014 - Aug. 2015*

- Teaching robots programming and basics of construction
- Supervising the group

Skills

- Advance knowledge of **Python** and **Lua** programming languages
- Experience in working with version control system – **Git**
- Data Analysis and Visualization
- Advanced knowledge of **MATLAB LabView** and **Mathematica** programming environments.
- Basic knowledge of **C** and **C++**

Academic Projects

Evaluating the influence of the face as a feature on multiple saliency models.

TUM - NISE, GROUP PROJECT   *Dec. 2018 - Feb. 2019*

- Integration of features - Python
- Data Analysis - Python

VR Acuity experiment - related to Ratcave project at LMU

LMU, MSNE RESEARCH RROJECT   *Mar. 2018 - Apr. 2018*

- Implementation of data analysis method - Python
- Acuity experiment design

ConvAge - CNN for prediction of future appearances on human faces

TUM - DL4CV, GROUP PROJECT   *Jan. - Mar. 2018*

- Python, PyTorch

3D printed Upper Limb Prosthesis, controlled with electromyography signals

STUDENT CIRCLE PROJECT, MAIN CONSTRUCTOR   *2015*

- Circuit and electronics design
- Leader of the group working on the project

System allowing steering of Robots with electromyographic signals

PERSONAL PROJECT   *2014*

- Software and bluetooth connections design
- Lua and LabView

Extracurricular Activity

Neuroengineering Journal Club - student organization for talks and workshops

Technical University of Munich, German

FOUNDING AND ORGANIZATION TEAM MEMBER   *Oct. 2018 - present*

- Website and email development and maintenance.
- Co-organization of the talks

Students Scientific Circle of Biomedical Equipment, Faculty of Mechatronics

Warsaw University of Technology, Poland

CORE MEMBER & PRESIDENT 2014-2016   *Nov. 2013 - Feb.2016*

- Reforming the society by focusing on Biomechanics related projects
- Leader and originator of core projects

Languages

- **Polish** - Native language
- **English** - Professional working proficiency, **IELTS** certificate with overall score: **8.0** (C1)
- **German** - Elementary proficiency
- **French** - Elementary proficiency