

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 achievements 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 Ratscave
- Data analysis for visual acuity tests
- Python developer

CERN, BEAM Department

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 plotting 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
- Publication in preparation

VR Acuity experiment - related to Ratcave project at LMU

LMU, MSNE RESEARCH PROJECT

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