

GREGGORY ZINNIEL

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Steinickeweg 4, 80798 Munich DE

25.10.1995, Minnesota USA



SKILLS

Programming

- Assembly, C, C++, MATLAB,, Python

Machine Learning

- PyTorch, Keras, Tensorflow
- SciKit-Learn, OpenCV, MediaPipe

Circuit Analysis

- AC, DC, Analog
- RF and Rectangular Waveguides
- Single- and Multi-Phase Systems

Mathematics

- Optimal Control
- Fourier Analysis, Linear Algebra

CERTIFICATIONS

USPTO Registered Patent Agent

Washington D.C., USA

- Registration Number 78,134

Eagle Scout Rank

Wayzata, Minnesota, USA

- Troup 283

LANGUAGES

English

C2 (Native)

German

B1 (Intermediate)

HOBBIES AND INTERESTS

Bouldering and Climbing

- Part-Time route-setter Heavens Gate IG

Photography

- Photo Gallery [Link](#)

Raspberry Pi

- Smart Hangboard for climbing

EDUCATION

Master of Engineering | Oct 2021 – June 2024

TECHNICAL UNIVERSITY OF MUNICH | GPA: 1.8 (DE Scale)

Bachelor of Electrical Engineering | Sept 2021 – May 2024

UNIVERSITY OF MINNESOTA | GPA: 1.3 (DE Scale)

Study Abroad | Sept 2017 – Dec 2017

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY TRONDHEIM

RESEARCH EXPERIENCE

Acoustic Analysis of Laser Welding Defects | Nov 2022 – June 2023

Institute for Machine Tools and Industrial Management, Technical University of Munich

- Implemented weld image recognition and alignment in imagery using TensorFlow and OpenCV
- Conducted acoustic denoising and classification Fourier Transforms, Noise Gates, and SciKit-Learn

Rooftop and Superstructure Classification | July 2023 – Mar 2024

Chair of Automotive Technology, Technical University of Munich

- Extracted, cleaned, and categorized aerial imagery using Rasterio, GeoPandas, and Google APIs
- Developed deep learning models with PyTorch for semantic segmentation with PyTorch and Keras
- Explored novel self-supervised learning techniques for aerial and biomedical data

WORK EXPERIENCE

Myoelectric Technician | July 2023 – Feb 2024

TASKA Prosthetics, Munich, DE

- Conducted repairs, tests, and software upgrades on myoelectric prosthetic hands
- Developed a macro-enabled tracking system for company diagnostics

Patent Agent | Mar 2017 – May 2021

Fredrikson & Byron, Minneapolis, Minnesota, USA

- Promoted from Intern to Staff Scientist in 2018, and then to Patent Agent in 2019
- Led comprehensive analyses of patentability, novelty, and strategic value for clients
- Drafted and prosecuted patents at the U.S. and European Patent Offices (USPTO and EPO)

Electrical Engineer Intern | May 2016 – Sept 2016

Loram Maintenance of Way, Hamel, Minnesota, USA

- Optimized and developed power distribution systems and circuit logic for trains
- Researched EN and UL certifications to ensure compliance with international industrial standards