

Curriculum Vitae
Alexander Koenig

Contact

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Nationality German

Education

10/2018 — ongoing **Technical University of Munich**
M.Sc. Robotics, Cognition, Intelligence
Exchange Semester at Tel Aviv University

10/2014 — 10/2018 **Technical University of Munich**
B.Sc. Engineering Science
Exchange Semester at Tor Vergata University of Rome
Bachelor Thesis: Visualization of Complex Bone Fractures in Augmented Reality during Reduction Surgery (Thesis Grade 1.0 – Excellent, Supervisor: Prof. Navab)

09/2012 — 05/2014 **King Edward's School Witley, GB**
International Baccalaureate (Grade: 40 points – top 5%)

Work Experience

04/2019 — 09/2019 **Graduate Researcher, Mechatronics in Medicine Laboratory, Imperial College London**
Development of a modular ROS software platform for virtual reality assisted teleoperation of a serial manipulator robot via motion tracking systems, Investigation of autonomous robotic grasping using neural networks (Supervisor: Prof. Rodriguez y Baena)

11/2018 — 01/2019 **Working Student, Microstep, Munich**
Software development for usage in sales campaign: web crawler, automated generation of SQL scripts for user registration process

03/2017 — 08/2017 **Intern, Technical Integration, BMW Group, Munich**
Evaluation of a rendering software prototype, Extensive testing within the BMW IT-structure, Identification of error patterns and optimization potentials, Support of a scientific study

Skills

Software Robot Operating System (ROS), Git, Docker, Unity3D, 3DSlicer, L^AT_EX
Hardware HoloLens, KUKA iiwa, AprilTags, Oculus Rift, Leap Motion, RGB-D cameras
Programming Python, C#, Swift, MATLAB, C, GraphQL
Frameworks PyTorch, Tensorflow 2, Keras, Pyglet, SwiftUI
Languages German: native, English: proficient, Italian: intermediate, French: beginner