

Curriculum Vitae

Contact

Name Alexander Koenig
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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
Thesis: Visualization of Complex Bone Fractures in Augmented Reality
during Reduction Surgery (Grade: Excellent, Supervisor: Prof. Navab)
09/2012 — 05/2014 **King Edward's School Witley, GB**
International Baccalaureate (Grade: 40 points = 1.3 Abitur)

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), Docker, Unity Game Engine, 3DSlicer, Git
Hardware HoloLens, KUKA iiwa, AprilTags, Oculus Rift, Leap Motion, RGB-D camera
Programming Python, C#, Swift, MATLAB, GraphQL
Frameworks Tensorflow 2, Keras, PyTorch, Pyglet, SwiftUI
Languages German: native, English: proficient, Italian: intermediate, French: beginner