

Wolfgang Wiedmeyer

Education

- 10/2013–7/2016 **M.Sc. Mechanical Engineering**, *Technical University of Munich*.
Master's thesis „Development of a Computational Human Motor Control Model Using a Redundant Haptic Interface“
Term project „Development of a Stepplanner for Legged Robots“
- 10/2010–10/2013 **B.Sc. Medical Technology and Engineering**, *Technical University of Munich*.
Bachelor's thesis „Dynamic Simulation of a Biarticular Variable Stiffness Actuator“
- 9/2001–6/2010 **Abitur**, *Pater-Rupert-Mayer-Gymnasium Pullach*.
advanced courses Latin and mathematics

Work as student assistant

- 5/2015–8/2015 **Institute of Applied Mechanics**, *Technical University of Munich*.
Advancement of a stepplanner for the humanoid robot *LOLA*
Runtime optimization, improvement of the distance calculation between robot and obstacles and implementation of an adaptive heuristic for the utilized A* search algorithm
- 10/2013–2/2014 **Institute for Computational Mechanics**, *Technical University of Munich*.
Tutor for Engineering Mechanics III
Helped students with their homework in a weekly consultation hour and during tutorials
- 11/2011–2/2012 **Institute for Materials Handling, Material Flow, Logistics**, *Technical University of Munich*.
Created a video tutorial detailing design and drawing derivation using the CAD software suite CATIA

Hands-on experience

- 9/2012–1/2013 **working student**, *Institute of Robotics and Mechatronics*, German Aerospace Center (DLR), Oberpfaffenhofen.
Analysis of a biarticular joint mechanism under static conditions
The analysis focused on the adjustable stiffness ranges at the endpoint of a robotic planar arm and the results were compared to an actuator without biarticular coupling.
Publication:
Höppner, H., Wiedmeyer, W., and van der Smagt, P. (2014). A new biarticular joint mechanism to extend stiffness ranges. In *IEEE International Conference on Robotics and Automation (ICRA)*
- 7/2010–9/2010 **pre-degree internship**, *KraussMaffei Technologies GmbH*, Munich.
Apprentices' training shop: Learned cutting and forming manufacturing processes
TechCenter: Assisted assembly and trial runs of injection molding machines