

/ Sr. Robotics Software Engineer (m/f/d)

PCH Innovations is a Berlin-based creative engineering studio for exploratory technology.

We are designers, engineers, technologists, philosophers, coders, researchers, film makers and storytellers, united by a common curiosity and vision for a harmonious human/machine ecology.

We explore how technology can empower reflection, regeneration and invention.

We combine earth-shot thinking and empathy to embed awareness, circularity and creativity in tomorrow's systems.

We apply 16 years of experience in immersive research, hands-on experimentation and pioneering technology, to formulating sustainable and scalable responses to inefficient and wasteful industrial systems.

ROLE DETAILS:

- / Location: Berlin, Germany
- / Duration: Permanent, Full-time
- / Start date: October/November 2022

WHAT YOU'LL BE WORKING ON:

- / Collaborate closely with other software engineers, roboticists, and project management to frame customer automation challenges and prototype scaleable robotic solutions
- / Design algorithms for sensor-guided robot motion control and trajectory generation to enable new robot applications that address unique manufacturing tasks
- / Design, implement, and maintain high-quality robotics software
- / Lead exploration into experimental robotic applications
- / Have fun!

MINIMUM QUALIFICATIONS:

- / Master's degree in Robotics, Computer Science, or equivalent skills
- / 3 years of professional experience

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- / Domain knowledge in motion control, sensor-based motion control, trajectory generation, motion optimization, robot manipulation
- / Demonstrable experience applying robotics, PLC programming, fieldbus communication, or motion controllers
- / Experience in developing the entire stack of robot applications, ranging from advanced algorithms to driving actuators
- / Experience in development, certification and verification of safety-critical software
- / Experience and interest in robotics hardware and physical prototyping
- / Experience in modeling and simulation of complex robotic tasks (kinematics, coordinate transformations, etc)

PREFERRED QUALIFICATIONS:

- / Experience and interest in applying AI/CV/ML to control, robotics, wearables, prosthetics, and haptics
- / Extensive experience developing control systems for robotics, real-time or embedded Linux systems, hypervisors, and RTOSes
- / Experience in applying robotics to soft materials such as textiles/fabrics
- / Experience in general software design and development for hardware-software systems or real-time systems using C++
- / Open-source projects and/or research publications about AI/ML/Robotics/Optimization/Control (e.g. NeurIPS, ICML, ICRA, ICRL, ICLR, CVPR).
- / PhD in Robotics, Computer Science, or equivalent skills and experience

WORK ENVIRONMENT:

- / A diverse, international, friendly and supportive team
- / A culture of responsibility, co-determination, openness and consideration
- / Space for creative freedom and expression
- / A beautiful, quiet, dog-friendly studio with a garden and multiple terrace hang-out spots
- / Fresh fruit and snacks throughout the week, weekly (vegan/vegetarian) chef-cooked lunches
- / Team-building activities and events
- / Individual and team coaching

If you are interested in working with us, please send us your CV, relevant work references, and via talent@pch-innovations.com. We will get back to you within three weeks.

Please apply until August 1 2022.

We look forward to hearing from you.