Curt Henrichs

Robotics / Software / Embedded Systems

Contact

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Skills

- Python ■■■■■■□
- ROS ■■■■■□□
- Linux ■■■■□□□
- Embedded Dev. ■■■■□□□
- Hololens / Unity ■■■■□□□
- Web Dev. ■■■□□□□

Interests

- Collaborative Robotics
- Augmented & Mixed Reality
- Embedded Systems
- Computer Vision

Coursework

- HCI & Data Visualization
- Computer Vision & ML
- Embedded Systems
- Software Engineering
- Computer Architecture

Website

curthenrichs.github.io

Aspiration

I am an engineer looking for the right opportunity to collaborate on the design and implementation of innovative robotic technologies.

Experience

Research Assistant ~ People and Robots Lab (2019 - *)
UW Madison Computer Sciences, Madison, WI
- Developed cobot authoring & training interfaces.
- Investigated user interactions with cobots.
- Worked with colleagues in Human Factors for a cobot deployment effectiveness study.
- Contributed to lab infrastructure software.

Teaching Assistant ~ Software Engineering (2018 - 2018)
UW Madison Computer Sciences, Madison, WI
- Project group mentorship and lectured on Git.

R&D Software Engineering Intern (2016 - 2018)
Dedicated Computing, Waukesha, WI
- Developed Atmel microcontroller firmware and thermal chamber test automation software.

Education

Master of Computer Science (2018 - *)
University of Wisconsin - Madison, Madison, WI

Bachelor of Computer Engineering (2014 - 2018)
Milwaukee School of Engineering, Milwaukee, WI

Notable Projects

Authr ~ A cobot authoring environment.
- Angular web app with ROS backend.
- MoveIt provides motion plans and time-of-flight.
- Domain language built around Therbligs.

Expert View Dashboard ~ A cobot training environment.
- React web app with ROS backend and Unity simulation.
- Provides feedback derived from interviews with experts to novice cobot programmers.
- Explorated Microsoft Hololens as alternate XR interface.

pRAD ~ Evaluation of a new signal for cobot operator interfaces.
- Applies predictive robot attention demand to cobots.
- Two interface widgets (timeline and timer) evaluated for task and collaborative outcomes.
- Design suggestions from participant interviews.