

Kent K. Sommer

SOFTWARE ENGINEER · ROBOTICIST · MACHINE LEARNING RESEARCHER

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"I would like to work with the best minds in the industry on projects that matter and help to improve the world."

Education

University of Minnesota

Minneapolis MN, USA

B.A. IN COMPUTER SCIENCE

2013 - 2016

KAIST (Korean Advanced Institute of Science and Technology)

Daejeon, South Korea

M.S. IN COMPUTER SCIENCE AND ENGINEERING

2016 - PRESENT

Experience

Intelligent Systems and Neurobotics Lab

Daejeon, South Korea

RESEARCH ASSISTANT

Sept. 2016 - Present

- Developed the new recognition and SLAM system for HUBO (humanoid platform and winner of 2015 DARPA challenge)
- Developed deep learning based real-time robotic kidnap resolution system presented at URAI 2017
- Currently researching in the field of deep reinforcement learning and neural based planning for robotics

Cybertrol Engineering

Minneapolis MN, USA

SOFTWARE ENGINEER INTERN

Aug. 2015 - Jul. 2016

- Responsible for custom .NET software design, implementation, and testing.
- Responsible for research and development related to systems integration.

Yujin Robot

Geumcheon-gu, South Korea

INNOVATION TEAM INTERN

May 2014 - Sept. 2014

- Responsible for new obstacle detection stack utilizing PCL, ROS, and OpenCV.
- Assisted with the creation of the next iteration of Yujin's SLAM technology (D-SLAM).
- Upgraded six android applications for ROS Indigo.
- Responsible for various bug fixes throughout the ROS indigo software stack

The Toro Company

Minneapolis MN, USA

BUSINESS INTELLIGENCE ANALYST

May 2013 - Aug. 2015

- Responsible for QlikView and SAP integration and change management.
- Provided support and training to business users using QlikView.

The Toro Company

Minneapolis MN, USA

DESKTOP ANALYST

May 2012 - Aug. 2012

- Responsible for Windows 7 site wide deployment, as well as the iPad loaner program creation and documentation.

Skills

Programming Languages

PYTHON, C++, C, C#, HAVE USED MANY MORE

Tools and Libraries

ROS, UNIX, OPENCV, PCL, GAZEBO

Languages

FOREIGN

- Full professional proficiency in Swedish
- Elementary proficiency in Korean

Qualities

- Good at communicating technical terms in easy to understand language
- Passionate about everything I work on
- Excellent troubleshooter
- Work well in teams
- Quick learner

Various Projects

Open Source

MAINTAINER AND AUTHOR

- Implementation of Google's Inception v4 Architecture in Keras
- Implementation of Google's Inception ResNet v2 Architecture in Keras
- Implementation of Tamar's Value Iteration Network Architecture in PyTorch
- Implementation of Kendall's PoseNet Architecture in TensorFlow

Various Locations

2015-Present

Python Workshop

TEACHER

- Taught workshop on Python to a group of mixed level computer science students at KAIST

Daejeon, South Korea

2016

North Shore Philharmonic Orchestra

VIOLIN SOLOIST

- Performed a concert series as the soloist for Mozart's fourth violin concerto

Duluth MN, USA

Jun. 2014

Ethno

UNITED STATES FOLK MUSIC REPRESENTATIVE

- Taught workshops on American folk music to students from all over the world

Rättvik, Sweden

Jul. 2016