Laura Stegner

Email stegnelm@mail.uc.edu
Telephone +1 (513) 549-0246
LinkedIn linkedin.com/in/laura-stegner
Website laurastegner.com

Education

BS Electrical Engineering, *University of Cincinnati Class of 2019* **GPA: 4.00**

Key Courses: Intro to HCI, Biologically Inspired Computing, Industrial Controls & Automation, Modern Power Electronics

Exchange Student, *Newcastle University, United Kingdom*
Full semester of engineering and computer science classes

Study Abroad, *Seoul National University, South Korea*
Summer Korean language program with homestay

Key Skills

- Unity real-time engine
- C#
- Python
- SQL Server
- Visual Basic .NET
- MATLAB
- C++
- Web development
- Arduino
- Underwater robotics
- International relations
- Data visualization
- Reverse engineering
- Chemical handling
- Adaptability
- Teaching
- Public speaking
- Collaboration
- Time management
- Patience

Experience

Max Planck Institute for Software Systems
Kaiserslautern, Germany
May 2018 – Sept 2018

RISE Germany Scholar
- Created simulation environment with Unity real-time engine to test AI controllers for self-driving cars, to allow for rapid testing for points of failure in varying conditions
- Designed data structure and methods for road network implementation
- Incorporated real-time direct manipulation of road parameters (e.g., number of lanes) and environment variables (e.g., fog density)
- Implemented fundamental programming concepts including data structures, reactive programming, object-oriented programming, and LINQ queries

Novel Device Lab/ Eccrine Systems, Inc.
Cincinnati, OH
Aug 2017 – Apr 2018

Research Co-op
- Developed and characterized sweat flow-rate sensor
- Devised on-body testing apparatus and software for sweat rate sensor
- Designed readout electronics and Bluetooth communications system for sensor
- Prototyped with CADD, laser cutting, and 3D printing

Sandvik Hyperion
Worthington, OH
May 2016 – Aug 2016
Aug 2015 – Dec 2015

Manufacturing Systems Co-op
- Developed database modules to manage and automate process improvement tracking and internal software modifications
- Designed method to import data from sister plant into local database
- Implemented new database and software module for new engineering process
- Created PanelMate UI screens for improved machine calibration process

Posters & Presentations

Programming-Direct Manipulation Integration for Simulation Environments. L. Stegner, et al.
Presented at the 2018 RISE Germany Meeting, Heidelberg, Germany. July 2018.

Determination of manganese using cathodic stripping voltammetry and lead using anodic stripping voltammetry. L. Stegner, et al.
Poster session presented at the 2016 American Chemical Society Central Regional Meeting, Cincinnati, OH. May 2016.

Using Kepler data to classify the evolutionary state of red giant stars. D. Miller, Bensel, H., [and 19 others, including L. Stegner].
Poster session presented at the 2014 American Astronomical Society Meeting, Washington, DC. Jan 2014.

Leadership

Vice President, *Eta Kappa Nu Honor Society*
Initiated video-tutorial series for challenging core subjects

President & Master Instructor, *Taekwondo Team*
Instructed practice and organized tournaments

Co-Founder & Organizer, *Engineering Diplomats*
Developed programs for cohort of dual-enrolled Chinese students

Judge, *U.S. Figure Skating*
Assessed skaters' skills in technical tests and competition