

WORK EXPERIENCE

- **Swarm Robotix** Oswego, IL
Software Development Intern *June 2017 - August 2017*
 - Worked with a team to prototype a concept for the optimization of intermodal container logistics using multi-robotic systems
 - Developed code for communication among internal components and between robots as well as sensor data manipulation using Arduinos and Java on Raspberry Pis
 - Designed high level algorithms for port navigation, task assignment, and swarm cooperation

EDUCATION

- **University of Illinois at Urbana-Champaign**
Computer Science; GPA: 3.88/4.00 *August 2017 - Present*
 - **Coursework:** Numerical Methods, Computer Architecture, Data Structures with Honors: Geometric Structures for Graphics, Discrete Structures, Applied Linear Algebra, Intro to Computer Science, Physics: Mechanics
 - **Honors:** James Scholar Nominee, Dean's List

ACTIVITIES

- **CS 125 Course Assistant** *January 2018 - May 2018*
 - Assist students taking Intro to Computer Science by providing more accessible guidance and instruction
 - Aid teaching assistants with the instruction of lab sections
 - Hold office hours during the week to help students struggling with the machine problems
 - Moderate the course forum to answer questions about either course topics or logistics
- **Association for Computing Machinery** *August 2017 - Present*
 - Chair of GNU Linux User Group for promoting use of Linux and the discussion of free and open source software
 - Member of special interest groups for operating systems and the Association for Data Science and Analytics

PROJECTS

- **Build Your Own Lisp**
 - Learn how to build an interpreted programming language by developing a simple Lisp
 - Improve knowledge of and experience with C and imperative programming
- **Password Safe**
 - Build a command-line interface password safe using SHA-256 hashing and PBE MD5 Triple DES encryption
 - Created an executable Java archive for distribution on GitHub for each release
- **Arch Linux Configuration**
 - Setup an Arch Linux installation to comprehend the parts of a Linux distribution and system administration
 - Build lightweight userspace for daily use from scratch, installing and customizing all necessary programs for an efficient personalized workflow

PROGRAMMING SKILLS

- **Languages:** Java, C++, Python, Bash, LaTeX, RobotC
- **Tools/Technologies:** Git, Raspberry Pi, ViM