

# Ryan P Somerfield

Master's Student Seeking Internship

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I am a highly driven master's student seeking an internship position in engineering where I can lend my broad knowledge of software and technology to the areas of autonomy, control, navigation, and computer vision.

## Education

- 08/2018 – Present**      **Master of Science, Systems and Entrepreneurial Engineering**  
*University of Illinois at Urbana-Champaign- GPA: --/4.00*
- Specialization in Decision and Control
- 08/2013 – 05/2017**      **Bachelor of Science, Systems Engineering and Design**  
*University of Illinois at Urbana-Champaign- Department GPA: 3.43/4.00*
- Dean's List - Fall 2014, Fall 2016, Spring 2017

## Experience

- 08/2017 – 08/2018**      **Project Design Leader**  
*TinkRWorks, LLC. – Hinsdale, IL*
- Developed STEM-based electronics, robotics, and programming projects in a way accessible to children age 8+
  - Utilized microcontrollers, single-board computers, CAD software, C-based languages, Python, and Open Source packages in the development of projects
  - Implemented methods for use and best of practices of rapid prototyping technology including 3D printers, laser cutters, and CNC milling machines.
- 05/2016 – 08/2016**      **Engineering Design Intern**  
*Littelfuse, Inc. – Champaign, IL*
- Utilized 3D CAD software to design prototypes for new products
  - Developed VBA programs for the automation of data analysis, saving time during the testing process
  - Collaborated with LEAN Manufacturing and Six Sigma certified engineers in developing efficient manufacturing processes
  - Planned and performed electrical testing on various electronic components

## Skills and Software Highlights

- |                           |       |                                |       |
|---------------------------|-------|--------------------------------|-------|
| • Python Programming      | ★★★★★ | • Autodesk Inventor            | ★★★★★ |
| • C/C++ Programming       | ★★★★☆ | • Autodesk Fusion 360          | ★★★★☆ |
| • Robot Operating System  | ★★★★☆ | • Rapid Prototyping Techniques | ★★★★☆ |
| • LabVIEW                 | ★★★★☆ | • Electronics/Soldering        | ★★★★☆ |
| • Matlab/Simulink         | ★★★★☆ | • Leadership                   | ★★★★★ |
| • Web and App Development | ★★★★★ | • Fast Learner/Self Sufficient | ★★★★★ |

## Additional Activities

- 08/2013 – 05/2017,**      **Student Athlete**  
**08/2018 - Present**      *Illinois Cross Country Club, Illinois Track Club – Champaign, IL*
- Competed in 8 kilometer and Track and Field races against other collegiate athletes nationwide.
  - 2014 National Intercollegiate Running Club Association 'B' Race National Champion
- 05/2016 – 05/2017**      **Head Coach**  
*Illinois Cross Country Club – Champaign, IL*
- Leader and manager of approximately eighty team members and athletes
  - Collaborated and cooperated with other Executive Board members to drive the direction of the club