

Ryan P. Somerfield

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Willowbrook, Illinois 60527

EDUCATION

University of Illinois at Urbana-Champaign

August 2018- Present

Masters of Science, Control Systems

University of Illinois at Urbana-Champaign

August 2013 - May 2017

Bachelor of Science, Systems Engineering and Design

GPA: 3.18/4.00

- Dean's List - Fall 2014, Fall 2016, Spring 2017

WORK EXPERIENCE

TinkRWorks, LLC

August 2017 –August 2018

Project Development Leader

- Instructed daily classes of 15+ students in electronics/technology based projects
- Prototyped projects involving microcontrollers, robotics, and computer programming
- Assisted in leading groups for youth robotics competitions
- Created and maintained processes for 3D printing and in-house PCB milling

Littelfuse, Inc.

Summer 2016

Engineering Design Intern

- 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

NTN Bearing Corporation

Summer 2015

Engineering Intern

- Planned and executed product analysis testing to identify inconsistencies in the manufacturing process
- Followed proper testing protocol and utilized various product test machines and inspection equipment
- Formally documented test findings in official engineering test reports
- Cataloged research and technical documents into a searchable information database

RELATED EXPERIENCE

UIUC Engineering Senior Design

Spring 2017

Wireless Vital Sign Monitor

- Designed and implemented electronic circuitry for pulse oximeter sensor using SPI protocol
- Developed code in C for the programming of MSP430 microcontroller

SKILLS

Computer

AutoDESK Inventor (Advanced), C Programming (Intermediate), Python (Intermediate), C++ (Intermediate), HTML (Advanced), CSS (Intermediate), MATLAB/Simulink (Intermediate), LabVIEW (Intermediate), VBA (Intermediate)

Other

Arduino, Raspberry Pi, Drafting & Dimensioning, Soldering, Strong Leadership, Fast Learner

ACTIVITIES

University of Illinois Club Running Team

2013-2017

Head Coach

- Led and managed 80+ athletes on a daily basis
- Individually worked with athletes to encourage improvement and achieve personal goals
- Corresponded with other coaching professionals to organize entry into meets