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# Philip Steinbrunner

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## Education

**Michigan State University, East Lansing MI**

Expected May 2017

B.S. in Biosystems Engineering

- Concentration in Food Engineering
  - Honors College
  - Dean's List 2013-2016
  - GPA 3.95/4.00
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## Experience

**Professorial Assistant**

August 2013 - May 2015

Food Safety Lab, Michigan State University, East Lansing, MI

- Maintained lab supplies and assisted in published experiments run by graduate students
- Programmed an Arduino microcontroller to be utilized in a USDA funded project
- Led experiments in food irradiation and presented results at undergrad research forum
- Certified in Biosafety Level 2 pathogenic work as well as X-ray irradiator operation

**Undergraduate Research Assistant**

May 2015 - Present

Food Safety Lab, Michigan State University, East Lansing, MI

- Planned experimental designs for food irradiation research funded by USDA
- Assisted in work on thermal inactivation and bacterial transfer for scientific publication
- Gathered and analyzed data using statistical programs such as MATLAB and Minitab
- Presented poster at Intl. Association for Food Protection conferences

July 2015-July 2016

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## Publications and Presentations

- "Factors Affecting X-Ray Inactivation of Salmonella in Low-Moisture Foods." Poster presentation at Intl. Association for Food Protection conference July 2015
  - "Effect of Dose Rate and Energy Level on X-ray Inactivation of Salmonella in Model Food." Poster presentation at University Undergraduate Research and Arts Forum April 2016
  - "Effect of Product Structure and Water Activity on X-ray Inactivation of *Salmonella* in Low Water Activity Foods." Poster presentation at IAFP conference July 2016
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## Leadership and Outreach

**Biosystems Engineering Club Executive Board**

August 2014 - Present

- Served as social chair for the club
  - Helped plan club social events such as pumpkin carving, cookie baking, and apple picking
  - Organized professional development meetings for all BE undergraduate students
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## Honors and Awards

- College and Departmental Scholarships for Academic Achievement, August 2013-Present
- Awarded undergrad research grant from College of Ag. and Natural Resources January 2015
- Co-author on first-place poster at IAFP undergrad research competition July 2015