

# [First Name] [Last Name]

(312) 666-5555 · email@uic.edu · [LinkedIn URL](#)

## EDUCATION

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### University of Illinois at Chicago

Expected December 2020

Doctor of Philosophy, Mechanical Engineering, 3.6 GPA  
Dissertation Title: [Insert title here]

### Milwaukee School of Engineering

May 2015

Bachelor of Science, Mechanical Engineering, 3.5 GPA

## TECHNICAL SKILLS

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- **Design/Analysis Software:** SolidWorks, SolidEdge, CATIA, ANSYS, ImageJ
- **Computer Languages:** Fortran, MATLAB, LabVIEW, EES
- **Laboratory Equipment:** Rotational Viscometer, Capillary Viscometer, Extensional Rheometer, High-Speed Photography, Spectrofluorometer, Flow Visualization, Wind Tunnel, Oscilloscope
- **Other:** Microsoft Office Suite, Windows OS, Mac OS, Linux OS, LaTeX

## RESEARCH EXPERIENCE

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### University of Illinois at Chicago, Department of Mechanical and Industrial Engineering

Research Assistant

August 2015 – Present

- Collaborate and coordinate with faculty, staff scientists, and fellow graduate students across departments
- Contribute to multi-disciplinary projects based on fluid mechanics, solid mechanics, and heat transfer
- Design experiments to obtain fundamental knowledge of various physical phenomena
- Develop mathematical models to theoretically predict and further understand physical phenomena

## MANUFACTURING EXPERIENCE

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### Apex Tool Works, Inc., Rolling Meadows, IL

Design Engineer Intern

June – August 2014, 2015

- Designed parts for complex machinery using CAD software and other design tools working closely in a professional environment with an experienced design engineer
- Created prototype that would be used to develop a product projected to generate \$400k in the first year of sales

### Wisconsin Space Grant Consortium, Milwaukee, WI

Engineering Intern

June – August 2013

- Designed and built a high altitude balloon that could reach 90,000 feet using SolidWorks
- Devised scientific experiments to test balloon's ability to reach to over 90,000 feet
- Budgeted and adhered to strict program schedule, meeting project deadlines and staying within a budget of \$4k

## PUBLICATIONS

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[Student Name], A.L. Yarin, and D. Attinger, "Theoretical and experimental investigation of paint spatter from paintball gun", *Phys. Rev. Fluids*, (Accepted May 2019).

[Student Name], and A.L. Yarin, "Friction coefficient of an intact free liquid jet moving in air", *Exp. Fluids*, 59, 65, 2018.

[Student Name], A.L. Yarin, and D. Attinger, "High-speed video analysis of forward and backward spattered paint droplets", *Forensic Sci. Int.*, 276, 134-141, 2017.

[Student Name], A.L. Yarin, and D. Attinger, "Hydrodynamics of back spatter", *Phys. Rev. Fluids*, 2(7), 073906, 2018.

[Student Name], A.L. Yarin, S. Kim, and D. Attinger, "Prediction of back spatter from a paintball gun", *Phys. Rev. Fluids*, 1(4), 043201, 2017.

A. Kolbasov, [Student Name], R.P. Sahu, S. Sinha-Ray, A.L. Yarin, B.S. Sikarwar, S. Kim, T.Z. Jubery, and D. Attinger, "Paint rheology in shear and uniaxial elongation", *Rheol. Acta*, 55(11), 901-908, 2017.

## SELECTED CONFERENCE PRESENTATIONS

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[Student Name], A.L. Yarin, and D. Attinger, "Investigation of paint spatter from a paintball gun", *Pittcon*, Orlando, Florida, Feb. 26-Mar. 1, 2019.

[Student Name], A.L. Yarin, and D. Attinger, "High-speed video analysis of forward and backward spattered paint droplets", *American Physical Society Division of Fluid Dynamics*, Denver, Colorado, Nov. 19-21, 2018.

[Student Name], A.L. Yarin, S. Kim, and D. Attinger, "Paint back spatter caused by a paintball gunshot", *American Physical Society March Meeting*, New Orleans, Louisiana, Mar. 13-17, 2018.

## SELECT HONORS AND AWARDS - UIC

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**Chancellor's Student Service Award** March 2019

- For students who have made an outstanding contribution to the University through service to the campus and community

**Graduate College Student Presenters Award** February 2019

**Faydor Litvin Graduate Honor Award** November 2018

- For exceptional academic achievement and service to the Mechanical and Industrial Engineering department and graduate student community

## SELECT LEADERSHIP EXPERIENCE

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**Mechanical and Industrial Engineering Graduate Association** 2017 – Present

*University of Illinois at Chicago*  
*President, Vice President*

- Manage and run graduate student organization for the Mechanical and Industrial Engineering department
- Plan graduate student events with the intent of fostering a sense of community between the students
- Facilitate departmental projects such as the creation of a graduate student lounge and periodic graduate student research presentations

**Society of Automotive Engineers** 2011 – 2015

*Milwaukee School of Engineering*  
*Vice President, Treasurer*

- Oversaw planning of events and coordinated information between four design teams
- Managed the organization's funding including bi-weekly meetings, several design teams, school promotions, and international meet-ups

**SuperMileage Design Team** 2011 – 2014

*Milwaukee School of Engineering*  
*Sponsorship Manager, Engine Team Leader*

- Kept track of sponsors for the team and properly acquired funding from outside donations
- Lead the development for designing and machining improvements on the engine for a student designed and built car with the intent of achieving the most fuel efficient vehicle possible