Permanent Address 732 Regent Dr. Crystal Lake, IL 60014

Alex R. Allmandinger

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Education

University of Illinois

B.S. Mechanical Engineering

- Class President Mechanical Science and Engineering Department
- Formula Society of Automotive Engineers
- Intramural Soccer Team Captain

Experience

Caterpillar Inc.

Corporate Engineering Intern / Student Practicum

Motor Grader Configuration

- Full Machine Model Structural Skeleton
 - Analyze and resolve issues with form and function
 - Enabled front axle machine motion and machine articulation
- Legacy Parts
 - Reverse engineered outdated supplier prints to create new parts
 - Update the parts and prints to current Caterpillar standards
 - Find new supplier to resume production and support machines in the field

Illini Motorsports - University of Illinois Formula SAE

Aerodynamics Team Member

Urbana - Champaign, IL August 2012 - Present

- Drag Reduction System Project Lead
 - Design and validate a pneumatic system to change angle of attack of wing elements
 - Manage and assign projects
- Jacking Bar / Rear Wing Mounting
 - Design jacking bar per 2013 FSAE Rules
 - Simulate load cases to validate design before manufacturing
- Manufacturing
 - Cut and prepare high density foam molds for the composite layup process
 - Complete carbon fiber manufacturing for wings, side pods, hood, nose cone, steering wheel, and diffuser

Crystal Lake Soccer Federation

Crystal Lake, IL Fall 2006 - Spring 2012

Soccer Referee

Provide a safe, fun environment for young athletes to develop

Guide players and act as a positive role model

Honors

• University of Illinois College of Engineering Dean's List

Fall 2012 - Present

Engineering James Scholar Honors

Spring 2013 - Present

• US Army Reserve National Athlete / Scholar Award

2012

Proficiency

- Skilled with Pro Engineer Creo 2.0
- Experienced in Microsoft Office Products
- Familiar with Star CCM+ Computational Fluid Dynamic Software
- Knowledgeable with Matlab and C++ coding languages

Urbana - Champaign, IL Expected Graduation - May 2016

Decatur, IL / Champaign, IL

May 2013 - Present

GPA 3.94/4.0