

# Clayton Salinger Ketner

*Mechanical Engineering & Computer Science*

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## INTRODUCTION

Fifth year (of five) undergraduate Mechanical Engineering and Computer Science student with strong practical experience, close attention to detail, and an interest in robotics, design, and fabrication. Effective team leader able to quickly adapt to changing environments and technologies.

## EDUCATION

Major: **Mechanical Engineering**, Minor: **Computer Science**

Fall 2011 –  
Spring 2014

**University of Southern California**

Graduate B.S. in May, 2014  
GPA: [fall '13]: 3.71

ME: CAD (&FEA), linear control systems, engineering algorithms, heat transfer, fluid dynamics  
CS: Robotics algorithms & sensors, concurrency, agents

Fall 2009 –  
Spring 2011

**University of Massachusetts, Amherst**

Transfer to USC  
GPA: [major]: 3.58, [cumulative]: 3.47

ME: Statics, dynamics, thermodynamics, material science, strength of materials  
CS: Artificial intelligence, data structures

## WORK

Summer 2013  
(4 Months)

**San Bruno Pet Hospital - System Administrator** (40 hr/wk)

- Independently maintained and installed computer systems.
- Communicated with employees and external tech support to report and resolve technical issues.
- Received praise for improving reliability of hardware and software.

Summer 2011  
(3 Months)

**OSIsoft - vCampus Intern** (40 hr/wk)

- Independently researched & integrated OSIsoft PI System with SAS analytics.
- Concluded findings in a White Paper posted to OSIsoft's vCampus website.
- Received praise from an outside company for quality of the White Paper.

## EXPERIENCE

Summer 2012

**Robotic Arm** – Designed, manufactured, wired, and coded independently and from scratch.

Tags: CAD | CNC | DESIGN | FABRICATION | CODE | MATLAB | ROBOTICS – [more info on my website](#)

Fall 2012

**Senior Project – Remote Inspection Vehicle** – Remote control robot for ASME competition. Designed and built the controller. Coded and wired the controller and robot.

Tags: CAD | DESIGN | LEADERSHIP | CODE | WIRELESS | ROBOTICS – [more info on my website](#)

## SKILLS

Engineering	SOLIDWORKS & SIM ★★★★★	SOLID EDGE ★★★★★	PRO-E ★★★★★
	LABVIEW ★★★★★	MATLAB ★★★★★	SIMULINK ★★★★★
	TECH REPORTS ★★★★★	MECHATRONICS ★★★★★	
Programming	JAVA & JUNIT ★★★★★	PYTHON ★★★★★	LATEX ★★★★★
	C++ ★★★★★	CONCURRENCY ★★★★★	GIT ★★★★★
Miscellaneous	WORD & EXCEL ★★★★★	COMMUNICATION ★★★★★	LEADERSHIP ★★★★★
	ORGANIZATION ★★★★★	RAPID PROTO ★★★★★	ELECTRONICS ★★★★★

## AFFILIATIONS & AWARDS

2011 – Present **Sigma Phi Delta** – Professional Engineering Fraternity – (Fall 2013) House Manager & E-Board

2013 – Present **SC Racing** – Formula SAE Team (Chassis)

March 2012 **Certified SolidWorks Associate** – Score: 100%

2010 **Dean's List**