

Clayton Salinger Ketner

Mechanical Engineering & Computer Science

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INTRODUCTION

Fifth year (of five) undergraduate Mechanical Engineering & 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: [major]: 3.32, [cumulative]: 3.24

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, thermo, 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	CAD	SOLIDWORKS & SIM ★★★★★	SOLID EDGE ★★★★★	PRO-E ★★★★★
	Code	LABVIEW ★★★★★	MATLAB ★★★★★	SIMULINK ★★★★★
	Other	TECH REPORTS ★★★★★		
Programming	Langs	JAVA & JUNIT ★★★★★	PYTHON ★★★★★	LATEX ★★★★★
	Other	CONCURRENCY ★★★★★	ROBOT ALGORITHMS ★★★★★	GIT ★★★★★
Miscellaneous	Misc	WORD & EXCEL ★★★★★	COMMUNICATION ★★★★★	LEADERSHIP ★★★★★
		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**