

# Clayton Salinger Ketner

*Mechanical Engineering & Computer Science*

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## INTRODUCTION

Fifth year (of five) Mechanical Engineering & Computer Science student with strong practical experience, good teamwork skills, close attention to detail, background in art and design, and an interest in design and fabrication.

## EDUCATION

Fall 2011 - Spring 2014	<b>University of Southern California</b> (Graduate May, 2014) GPA [major]: 3.32, [cumulative]: 3.24 Major: Mechanical Engineering Minor: Computer Science	SENIOR PROJECT, LINEAR CONTROLS, ENGINEERING ALGORITHMS, MECHOPTRONICS, HEAT TRANSFER, FLUID DYNAMICS, COMPUTER-AIDED DESIGN (2X)  OBJECT-ORIENTED PROGRAMMING, CONCURRENCY, AGENTS, ROBOTICS
Fall 2009 - Spring 2011	<b>University of Massachusetts, Amherst</b> Major: Mechanical Engineering Minor: Computer Science	STATICS, DYNAMICS, STRENGTH OF MATERIALS, MATERIAL SCIENCE, THERMODYNAMICS  DATA STRUCTURES, AI (PROBABILITY)

## WORK

Summer 2013 4 Months	<b>San Bruno Pet Hospital - System Administrator</b> (40 hr/wk) <ul style="list-style-type: none"><li>Independently maintain and install computer systems.</li><li>Communicate with external tech support to report bugs and resolve technical issues.</li></ul>
June 2011 - August 2011	<b>OSIsoft - vCampus Intern</b> (40 hr/wk) <ul style="list-style-type: none"><li>Independently researched &amp; integrated OSIsoft PI System with SAS analytics.</li><li>Utilized coding skills with Visual Basic .NET and C# .NET.</li><li>Concluded findings in a White Paper posted to OSIsoft's vCampus website.</li></ul>

## EXPERIENCE

Summer 2012	<b>Robotic Arm</b> – Designed, manufactured, wired, and coded independently and from scratch. <b>CAD</b> <b>CNC</b> <b>DESIGN</b> <b>FABRICATION</b> <b>CODE</b> <b>MATLAB</b> <b>ROBOTICS</b> <a href="#">more info on my website</a>
Fall 2012	<b>Senior Project – Remote Inspection Vehicle</b> – Remote control robot for ASME competition. Designed and built the controller. Coded and wired the controller and robot. <b>CAD</b> <b>DESIGN</b> <b>TEAM WORK</b> <b>CODE</b> <b>WIRELESS</b> <b>ROBOTICS</b> <a href="#">more info on my website</a>

## SKILLS

Engineering	<b>SOLIDWORKS</b> ★★★★★ <b>LABVIEW</b> ★★★★★☆ <b>TECHNICAL REPORTS</b> ★★★★★	<b>SOLID EDGE</b> ★★★★★☆ <b>MATLAB</b> ★★★★★	<b>PRO-E</b> ★★★★★☆ <b>SIMULINK</b> ★★★★★
Software Engineering	<b>JAVA &amp; JUNIT</b> ★★★★★☆ <b>C#</b> ★★★★★☆	<b>CONCURRENCY</b> ★★★★★☆ <b>PYTHON</b> ★★★★★☆	<b>AGENTS</b> ★★★★★☆ <b>LATEX</b> ★★★★★☆
Miscellaneous	<b>MS OFFICE</b> ★★★★★ <b>CNC MILL</b> ★★★★★☆	<b>COMMUNICATION</b> ★★★★★☆ <b>METAL LATHE</b> ★★★★★☆	<b>ADOBE ILLUSTRATOR</b> ★★★★★☆

## AFFILIATIONS & AWARDS

2011 - Present	<b>Sigma Phi Delta (Alpha Chapter)</b> – USC Professional Engineering Fraternity
2013 - Present	<b>SC Racing</b> – Formula SAE Team (Chassis)
March 2012	<b>Certified SolidWorks Associate</b> – Score: 100%
2010	<b>Dean's List</b>