

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)	<ul style="list-style-type: none">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.
June 2011 – August 2011	OSIsoft - vCampus Intern (40 hr/wk)	<ul style="list-style-type: none">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