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

Fall 2011 - Spring 2014

University of Southern California
(Graduate May, 2014)
GPA [major]: 3.32, [cumulative]: 3.24
Major: Mechanical Engineering
Minor: Computer Science

SENIOR PROJECT, LINEAR CONTROLS, DYNAMIC SYSTEMS, ENG ALGORITHMS, MECHOPTRONICS, HEAT TRANSFER, FLUID DYNAMICS, CAD (+FEA)

OBJECT-ORIENTED PROGRAMMING, CONCURRENCY, AGENTS, ROBOTICS

Fall 2009 - Spring 2011

University of Massachusetts, Amherst
Major: Mechanical Engineering
Minor: Computer Science

STATICS, DYNAMICS, STRENGTH OF MATERIALS, MATERIAL SCIENCE, THERMODYNAMICS

DATA STRUCTURES, AI (PROBABILITY)

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.**

June 2011 - August 2011

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.
`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.
`CAD` `DESIGN` `TEAM WORK` `CODE` `WIRELESS` `ROBOTICS` *more info on my website*

SKILLS

Engineering
- SOLIDWORKS ★★★★★
- LABVIEW ★★★★☆
- TECHNICAL REPORTS ★★★★★
- SOLID EDGE ★★★★☆
- MATLAB ★★★★★
- PRO-E ★★★☆☆
- SIMULINK ★★★★★

Software
- JAVA & JUNIT ★★★★☆
- C# ★★★☆☆
- CONCURRENCY ★★★★☆
- PYTHON ★★★★☆
- AGENTS ★★★★☆
- LATEX ★★★★☆

Miscellaneous
- MS WORD ★★★★★
- ADOBE ILLUSTRATOR ★★★★☆
- MS EXCEL ★★★★★
- RAPID PROTOTYPING ★★★☆☆
- COMMUNICATION ★★★★☆
- ELECTRONICS ★★★☆☆

AFFILIATIONS & AWARDS

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

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

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

2010 **Dean's List**