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

University of Southern California
(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

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 maintain and install computer systems.
- Communicate with external tech support to report bugs and resolve technical issues.

June 2011 - August 2011

OSIsoft - vCampus Intern (40 hr/wk)
- Independently researched & integrated OSIsoft PI System with SAS analytics.
- Utilized coding skills with Visual Basic .NET and C# .NET.
- Concluded findings in a White Paper posted to OSIsoft's vCampus website.

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

Software Engineering

`JAVA & JUNIT ★★★★☆` `CONCURRENCY ★★★★☆` `AGENTS ★★★★☆`
`C# ★★★☆☆` `PYTHON ★★★★☆` `LATEX ★★★★☆`

Miscellaneous .

`MS OFFICE ★★★★★` `COMMUNICATION ★★★★☆` `ADOBE ILLUSTRATOR ★★★★☆`
`CNC MILL ★★★★☆` `METAL LATHE ★★★☆☆`

AFFILIATIONS & AWARDS

2011 - Present **Sigma Phi Delta (Alpha Chapter)** – USC Professional Engineering Fraternity

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

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

2010 **Dean's List**