# Clayton Salinger Ketner

*Mechanical Engineering & Computer Science*

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## INTRODUCTION

Fourth 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 [Fall '12]: 3.39, [cumulative]: 3.22
Major: Mechanical Engineering
Minor: Computer Science

SENIOR PROJECT, LINEAR CONTROLS, ENGINEERING ALGORITHMS, MECHOPTRONICS, HEAT TRANSFER, FLUID DYNAMICS, COMPUTER-AIDED DESIGN

OBJECT-ORIENTED PROGRAMMING, CONCURRENCY, AGENTS

**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

**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.

**June 2009 - Present (summers)**

**White Ivie Pet Hospital - IT Support** (10 hr/wk)
- Provide IT support and maintain and install hardware and software.
- Communicate with outside IT support.

## EXPERIENCE

**Summer 2012**

**Robotic Arm** (in progress) - *more info on my website*
`CAD` `CNC` `DESIGN` `FABRICATION` `CODE` `MATLAB` `ROBOTICS`

**Fall 2012**

**Senior Project – Remote Inspection Vehicle** - *more info on my website*
`CAD` `TEAM WORK` `CODE` `WIRELESS` `ROBOTICS`

## SKILLS

### – Engineering –

| | |
|---|---|
| SOLIDWORKS | ★★★★★ |
| SOLID EDGE | ★★★★☆ |
| PRO-E | ★★★★☆ |
| LABVIEW | ★★★★☆ |
| MATLAB | ★★★★★ |

### – Programming –

| | |
|---|---|
| JAVA & JUNIT | ★★★★★ |
| CONCURRENCY | ★★★★☆ |
| AGENTS | ★★★★★ |
| C# | ★★★★☆ |
| PYTHON | ★★★★☆ |

### – Miscellaneous –

| | |
|---|---|
| MICROSOFT OFFICE | ★★★★★ |
| WRITING & COMMUNICATION | ★★★★★ |
| ADOBE ILLUSTRATOR | ★★★★☆ |
| CNC MILL & LASER CUTTER | ★★★★☆ |
| METAL LATHE | ★★★★☆ |

## AFFILIATIONS & AWARDS

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

**American Society of Mechanical Engineers**
Fall 2010 - Present

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

**Dean's list (UMass Amherst)**
2010