layton Salinger Ketner

 $Mechanical\ Engineering\ {\it \& Computer}\ \widetilde{Science}$

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INTRODUCTION

Fifth year (of five) undergraduate Mechanical Engineering and Computer Science student with strong practical experience, close attention to detail, and an interest in robotics, design, and fabrication. Friendly and effective team leader able to quickly adapt to changing environments and technologies.

$\mathbf{E}\mathbf{D}$			

Major: Mechanical Engineering - Minor: Computer Science

Fall 2011 -Spring 2014

University of Southern California | GPA: [fall '13]: 3.71 - Graduate B.S. in May, 2014

Advanced computer aided design (CAD + FEA), linear control systems, dynamic systems, vibrations, heat transfer, advanced strength of materials, engineering algorithms, robotics algorithms, artificial intelligence

Fall 2009 -Spring 2011

University of Massachusetts, Amherst | GPA: [major]: 3.58 - Transfer to USC

Statics, dynamics, strength of materials, thermodynamics

EXPERIENCE

Fall 2013 (4 Months) Design of a Mechanical Governor - AME 408 Final Project - Managed team to design a rotating governor part, given deformation and natural frequency requirements using SolidWorks.

Tags: LEADERSHIP | TEAMWORK | SOLIDWORKS | CAD | FEA - more info

Fall 2013 (4 Months) Intro to Robotics – CSCI 445 – Learned localization (particle & Kalman filters), mapping

(SLAM & FastSLAM), decision processes (MDP & POMDP), and sensor calibration and use.

Tags: ROBOTICS | ARDUINO | RASPBERRY PI | ALGORITHMS | SENSORS - more info

Fall 2012 (4 Months) Senior Project - Remote Inspection Vehicle - Remote control robot for the 2013 ASME

design competition. Designed and built the controller. Coded and wired the controller and robot.

Tags: CAD | DESIGN | LEADERSHIP | CODE | WIRELESS | ROBOTICS - more info

Summer 2012

Robotic Arm – Designed, manufactured, wired, and coded independently and from scratch.

(2 Months) Tags: CAD | CNC | DESIGN | FABRICATION | CODE | MATLAB | ROBOTICS - more info

SKILLS

 \bullet = 1 year of proficient use

Engineering	SOLIDWORKS & SIM ●●●	SOLID EDGE ●	PRO-E ●	TECHNICAL REPORTS ●●●
	LABVIEW ●	MATLAB & SIMULINK ●●●	MATHEMATICA ●	CONTROL SYSTEMS ●●
Hands-On	HAND TOOLS ●●●●●	MECHATRONICS ●●◀	ROBOTICS ●● (ELECTRONICS PROTO ●●◀
	3D PRINTING ◀	CNC MILL/ROUTER ◀	MACHINE SHOP ●●	
Programming	JAVA & JUNIT ●●●	PYTHON ● (C++ ●	LATEX ● (
	UI & UX ●	WEB DEVELOPMENT ◀		
Miscellaneous	WORD & EXCEL ●●●●	COMMUNICATION ••••	LEADERSHIP ●●	

AFFILIATIONS & AWARDS

2011 - Present Sigma Phi Delta - Professional Engineering Fraternity - Active member

- (Fall 2013) House Manager & Executive Board Member

2014 - Present USC Aerial Robotics Team - Mechanical team

Fall 2013 Dean's List (USC) Dean's List (UMass) Spring 2010

Certified SolidWorks Associate - Score: 100% March 2012