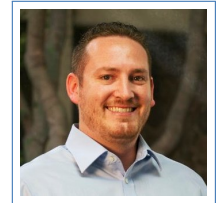


Richard House

Curriculum Vitae

Address
City, State Zip
(XXX) XXX-XXXX
XXXX@XXXXXX.com
<https://www.linkedin.com>
DOB: Month Day, Year



Education

- 2014–2016 **University of California, Berkeley**, *Bachelors of Science, Mechanical Engineering.*
- 2010–2014 **College of San Mateo**, *Transferred, Mechanical Engineering.*

Certifications

- April 2015 – April 2017 **Certified LabVIEW Associate Developer**, NATIONAL INSTRUMENTS.

Skills & Abilities

- Programming Languages: LABVIEW, MATLAB
- CAD: SOLIDWORKS
- Software: LATEX, MS WORD, MS EXCEL

Projects

- Aug 2015 – **CNC Pancake Printing Machine**, MECHATRONICS DESIGN.
- Dec 2015 Wrote LabVIEW code to acquire images of people's faces from a USB camera and perform image processing. Used MATLAB to convert the processed image to g-code. An Arduino Uno was acting as a CNC controller. Pancake batter was printed on an electric griddle and color shading was achieved by varying the cooking time.
- Aug 2015 – **IC Engine Performance Analysis**, MECHANICAL ENGINEERING LABORATORY.
- Dec 2015 Determined the change in performance of a turbo-charged 4-cylinder engine as a result of lowering the fuel temperature prior to injection into the cylinders. Thermocouple and exhaust data was collected using LabVIEW and a dynamometer was used to collect power and torque output readings.
- Jan 2015 – **Autonomous Quadrotor**, DESIGN OF MICROPROCESSOR-BASED MECHANICAL SYSTEMS.
- May 2015 Interfaced a quadrotor with a National Instruments MyRIO, a video camera, and ultra-sonic sensors. Wrote a LabVIEW VI that did image processing and controlled the movement of the quadrotor using a PID controller. The quadrotor was able to track a colored target and follow it.
- Aug 2013 – **Fishing Simulation**, MATLAB PROGRAMMING.
- Dec 2013 Wrote MATLAB code to create a basic fishing game using a 3-D matrix and a graphical user interface. Created an algorithm to set fish population, the probability of successfully catching a fish, and to control fish movement within the river.

Work Experience

- Dec 2015 – Present **Assistant Engineer**, INTEGRATED MOTIONS, INC, Berkeley, Ca.
Contracted with ChemiSense to characterize and calibrate proprietary air quality sensors.
- June 2015 – Present **Undergraduate Researcher**, UC BERKELEY EMERGENT SPACE TENSEGRITIES LAB.
Collaborating in the design, manufacturing, and assembling of a tensegrity robot. Designed and manufactured an apparatus to test the friction in the end caps. Helped design new end caps that reduced friction. Working to create a 3-D model that mimics the orientation of the robot using sensor readings.

- June 2015 – **Independent Contractor**, CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, Richmond, Ca.
- Dec 2015 Used wet and dry air to regulate the relative humidity in an environmental chamber. Designed and implemented a closed-loop controller in LabVIEW. Setup a Data Acquisition Module (DAQ) to take sensor readings and manage multiple mass flow controllers.
- March 2007 – **Transportation Security Officer**, COVENANT AVIATION SECURITY, LLC, San Francisco, Ca.
- June 2012 Thoroughly screened passengers using a variety of new technology to protect all passengers while maintaining a high level of professionalism with excellent customer service. Promoted as a recruitment team member to lead the hiring process. This included reviewing resumes, conducting interview, and helping new hires with the on-boarding process. Successfully completed a Professional Development program aimed at developing managerial skills.
- Aug 2006 – **Leasing Agent**, BRADDOCK AND LOGAN SERVICES, LLC, Danville, Ca.
- March 2007 Provided superior customer service and communication to high-end residents and prospects. Maximized customer satisfaction and increased renewals, revenue, reputation and profitability. Assisted in maintenance, lease administration, eviction, vacancy anticipation, collection, marking, lease renewals and audits. Prepared weekly and monthly rental statistic reports and market rent surveys.
- Oct 2005 – **Tire Installer**, COSTCO WHOLESALE, Livermore, Ca.
- Aug 2006 Drove customer vehicles into/out of installation bay and raised vehicles using a hydraulic lift. Mounted and dismounted tires from the rims and balanced them using a balancing machine. Assisted members in determining the correct tires needed for their vehicle. Ensured tires were properly inflated and lug nuts were properly tightened. Repaired flat tires.
- Aug 2005 – **Front Desk Receptionist**, 24 HOUR FITNESS, Fremont, Ca.
- Oct 2005 Greeted all incoming members and guests and directed them appropriately. Operated a cash register and sold merchandise to members. Maintained logs of maintenance requests and member concerns. Performed general cleaning duties.
- Feb 2004 – **Desktop Support Technician**, CAFEPRESS.COM, Foster City, Ca.
- Aug 2005 Supported two locations with 200+ employees. Diagnosed hardware and software issues and handled new equipment roll-out. Prepared reports for hardware and software auditing and also license and asset tracking. Administrated the mail server, phone system, alarm system, and building access.
- Nov 2003 – **Seasonal Sales Associate**, MACY'S, Concord, Ca.
- Feb 2004 Provided excellent customer service throughout the transaction process. Provided assistance in the selection of merchandise to purchase. Continually met personal sales goals and member reward card enrollment goals. Processed returns courteously and professionally.
- June 2003 – **IT Technician**, ESKANOS AND ADLER, LAWFIRM COLLECTIONS AGENCY, Concord, Ca.
- Aug 2003 & Provided IT support for 140+ users and was the primary contact for the call center employees. Troubleshot computer and network issues as well as software and hardware upgrades. Built new hire workstations.
- June 2002 –
- Jan 2003 Created an inventory of computer assets and a method for tracking new and retired computer parts.

Coursework

- Thermodynamics
- Combustion Processes
- Introduction to Mechanical Systems for Mechatronics
- Mechanical Engineering Laboratory
- Mechanical Behavior of Engineering Materials
- Mechatronics Design
- Heat Transfer
- Fluid Mechanics
- Design of Microprocessor Based Mechanical Systems
- Introduction to Solid Mechanics
- Dynamic Systems and Feedback Control
- Feedback Control Systems

Languages

English **Native Speaker**