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# Experience

*06/14 – 12/14* Halotechnics ***–*** *Mechanical Engineer*Emeryville, CA

* Designed, modeled and fabricated components and test stations for high temperature energy storage systems
* Utilized Solidworks to perform structural and thermal simulations to determine optimal system designs
* Created state machine control system in LabVIEW, managed I/O lists and P&IDs, procured custom instrumentation

*06/11 – 06/14* Halotechnics ***–*** *Operations Engineer*Emeryville, CA

* Developed a suite of integrated software to streamline operations and centralize data across departments:
  + A rapid experiment design tool used to create and analyze over 40,000 experiments (PHP and Javascript)
  + A cost optimization tool that solves linear programs to find the cheapest way to produce mixtures (VBA and PHP)
  + A data visualization tool for mapping phase spaces of multi-dimensional experiment data (Javascript and HTML)
  + Scripts to mine data, estimate current prices for raw materials and provide forecasts using predictive models (PERL)
* Built full stack: Set up IT infrastructure, servers and databases (WAMP), and front-end CRUD interface (PHP)

*01/11 – 06/11* Halotechnics ***–*** *Supply Chain Analyst*Emeryville, CA

* Analyzed 12 years of energy market pricing data in R and evaluated the financial performance of storage technology
* Responsible for determining current bulk raw material costs, identifying major suppliers, their production capacities and assessing the logistical requirements for moving hundred-ton quantities of material across the globe
* Innovated systems to manageably track and forecast prices for 150+ chemical compounds from dozens of suppliers
* Oversaw Saltstream™ and Haloglass™ product lines, pursued sales leads, set up CRM workflow and monitored sales
* Coordinated the procurement of raw materials and the production of product samples for customers

*08/09 – 09/10* PulseTrip Inc. – *Co-founder, Technical Director* Cupertino, CA

* + - Researched the medical tourism industry, analyzed market potential and wrote a detailed business plan and report
    - Acquired seed funding, recruited developers, and lead team to implement first iteration of web platform
    - Developed front-end user interface, utilized the CodeIgniter MVC framework in PHP to build the application

*08/01 – present* Esenther & Co. – *Sole-Proprietor, Consultant*Chicago, IL

* + - Provide client advisory services on technology implementation, including IT infrastructure, telecommunications systems, automated operation procedures, data backup plans, security systems, network layout and system design

# Education

*09/07 – 06/10* University of California, Berkeley – *Bachelor of Science, Industrial Engineering & Operations Research*

* Management of Engineering and Innovation Certificate from the Center for Entrepreneurship and Technology
* *Coursework:* Linear and Non-linear Programming, Probability and Statistics, Forecasting and Quality Control, Discrete Event Simulation, Supply Chain Management, Corporate Finance, Methods of Manufacturing
* *Senior Thesis:* Risk Analysis for Technology Implementation at the Korean Atomic Energy Research Institute
  + Developed a discrete event simulation model to test the safeguards for a proposed nuclear pyro-processing facility (C)

# Activities

*04/07 – 6/10* Rebuilding Together at Berkeley – *Founder, President of Student Association* Berkeley, CA

* Lead teams, allocated resources, coordinated operations across multiple sites and effectively oversaw safety of volunteers
* Spearheaded recruiting campaign to amass a volunteer base of over 300 members in 6 weeks

*11/06 – 01/10* Watergate Toastmasters – *Vice President of Education, Secretary* Emeryville, CA

* Scheduled meetings, assigned mentors to new members, updated website and maintained supportive environment
* Met with new members to determine their goals, created plans of action, and monitored their progress weekly

# Projects

*08/09 – 12/09* LVJ – Robotics Team Berkeley, CA

* Lead team of 3 through a set of obstacle course challenges using touch, sound, light and ultrasonic sensors (Java)
* Invited by Professor Roger Glassey to give a demonstration as part of the ‘Fun with Robots’ presentation on CalDay

*08/09 – 12/09* Jamba Juice Emeryville, CA

* Analyzed facility layout for new product integration, created and ran simulations and presented alternative designs
* Performed statistical analysis on sales data and created forecasting models based on time of year and weather conditions

*01/08 – 05/08* Mark V – Self-propelled vehicle composed of simple materials Berkeley, CA

* Led team of 5 to design three-wheel autonomous vehicle; Awarded first place and set all-time class distance record

# Skills & Interests

* + - Experience in MS Office & Adobe Suites, MATLAB, LabVIEW, SolidWorks; Windows, OS X, Linux, UNIX; C/C++, Java, SQL, VBA, Perl, Python, Ruby (RoR), R, PHP, HTML, CSS, Javascript; MySQL, PostgreSQL, Apache
    - Excellent written and verbal communication skills; Highly motivated; Enjoy working in and leading project teams
    - ASA-certified sailor, NAUI-certified scuba diver, amateur kiteboarder, avid programmer and V8/5.12+ rock climber