

Logan Esenther

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EXPERIENCE

06/14 – 12/14	Halotechnics – <i>Mechanical Engineer</i>	Emeryville, CA
	<ul style="list-style-type: none">Designed, modeled and fabricated components and test stations for high temperature energy storage systemsUtilized Solidworks to perform structural and thermal simulations to determine optimal system designsCreated state machine control system in LabVIEW, managed I/O lists and P&IDs, procured custom instrumentation	
06/11 – 06/14	Halotechnics – <i>Operations Engineer</i>	Emeryville, CA
	<ul style="list-style-type: none">Developed a suite of integrated software to streamline operations and centralize data across departments:<ul style="list-style-type: none">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 – <i>Supply Chain Analyst</i>	Emeryville, CA
	<ul style="list-style-type: none">Analyzed 12 years of energy market pricing data in R and evaluated the financial performance of storage technologyResponsible 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 globeInnovated systems to manageably track and forecast prices for 150+ chemical compounds from dozens of suppliersOversaw Saltstream™ and Haloglass™ product lines, pursued sales leads, set up CRM workflow and monitored salesCoordinated the procurement of raw materials and the production of product samples for customers	
08/09 – 09/10	PulseTrip Inc. – <i>Co-founder, Technical Director</i>	Cupertino, CA
	<ul style="list-style-type: none">Researched the medical tourism industry, analyzed market potential and wrote a detailed business plan and reportAcquired seed funding, recruited developers, and lead team to implement first iteration of web platformDeveloped front-end user interface, utilized the CodeIgniter MVC framework in PHP to build the application	
08/01 – present	Esenther & Co. – <i>Sole-Proprietor, Consultant</i>	Chicago, IL
	<ul style="list-style-type: none">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 – <i>Bachelor of Science, Industrial Engineering & Operations Research</i>
	<ul style="list-style-type: none">Management of Engineering and Innovation Certificate from the Center for Entrepreneurship and Technology<i>Coursework:</i> Linear and Non-linear Programming, Probability and Statistics, Forecasting and Quality Control, Discrete Event Simulation, Supply Chain Management, Corporate Finance, Methods of Manufacturing<i>Senior Thesis:</i> Risk Analysis for Technology Implementation at the Korean Atomic Energy Research Institute<ul style="list-style-type: none">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 – <i>Founder, President of Student Association</i>	Berkeley, CA
	<ul style="list-style-type: none">Lead teams, allocated resources, coordinated operations across multiple sites and effectively oversaw safety of volunteersSpearheaded recruiting campaign to amass a volunteer base of over 300 members in 6 weeks	
11/06 – 01/10	Watergate Toastmasters – <i>Vice President of Education, Secretary</i>	Emeryville, CA
	<ul style="list-style-type: none">Scheduled meetings, assigned mentors to new members, updated website and maintained supportive environmentMet 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
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none">Analyzed facility layout for new product integration, created and ran simulations and presented alternative designsPerformed 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
	<ul style="list-style-type: none">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