

## **OBJECTIVE**

To reduce oil consumption in the United States for the benefit of national security and global climate by combining my skills in policy analysis and my experience at a high-tech startup as an engineer and manager.

---

---

## **POLICY ANALYSIS WORK EXPERIENCE**

***Solutions Fellow*** January, 2010 - Present  
**Pew Center on Global Climate Change**

***Policy Analysis Consultant*** August, 2009 - October, 2009  
**The International Council on Clean Transportation**

- Authored report that assessed recent studies on biofuels
  - Assessed global estimates of available land
  - Analyzed indirect land-use (ILUC) studies
  - Evaluated current estimates for biofuel potential from first and second generation feedstocks
- Compiled a database from recent biofuel studies for future work
- Created a tool to calculate biofuel potential for different feedstocks worldwide

***Policy Analysis Consultant*** January, 2009 - May, 2009  
**U.S. Department of Energy's Office of Intelligence and Counterintelligence; Washington, D.C.**

- Evaluated the drilling expansion effort to combat declining oil reserves at Mexico's national oil company (PEMEX)
- Created network of international experts to collaborate on overarching issue of changing oil relationship in North America
- Authored advanced policy analysis report using econometric models and cost-benefit assessments as metrics to determine success of PEMEX oil drilling policy
- Presented findings to a mixed audience of energy and intelligence specialists in Washington, D.C. in April of 2009

***Policy Analyst (Graduate Student Intern)*** June, 2008 - December, 2008  
**National Renewable Energy Laboratory; Boulder, CO**

- Performed statewide economic analysis of wind energy to reduce electricity cost for residents of rural Alaska
- Assessed economic impact of wind-diesel hybrid systems for electricity generation using NREL's HOMER analysis tool
- Developed software tools to allow for automated analysis of over 100 communities
- Authored complete report summarizing results usable in the Alaska Energy Plan for December 2008

***Policy Analysis Consultant*** January, 2008 - May, 2008  
**East Bay Green Corridor Partnership; Berkeley, CA**

- Assessed opportunities for growth in green economic sector by collecting data, interviewing stakeholders, evaluating the clean-tech market, and comparing the East Bay with other regions in the United States
  - Recommended policies involving land use, stakeholder communication, entrepreneurship retention, website development, and public-private partnerships to encourage growth in green economy within the East Bay
- 
- 

## **ENGINEERING WORK EXPERIENCE**

***Embedded Software Manager, Embedded Software Engineer*** December, 2001 - August, 2007  
**SigmaTel (formerly Oasis Semiconductor); Waltham, MA**

- Performed roles including controls engineer, software architect, applications engineer, project lead, and manager
- Re-architected software system to support company's growing customer base

- Served as project manager for two major U.S. multi-function printer manufacturers completed on-time
- Trained, performed pre-sale activities, and supported customers in Asia and Europe
- Led development team of 10 engineers in Japan for several months, working directly with the customer
- Recruited and hired several engineers
- Created and led internal Software Development Kit (SDK) effort
  - Coordinated with existing customers to accommodate product requirements
  - Managed the efforts of over 10 software developers and supported several SDK customers simultaneously
  - Authored and maintained over 1000 pages of documentation

---

---

## **EDUCATION**

**Goldman School of Public Policy at the University of California, Berkeley, Berkeley, CA** May, 2009

**Master of Public Policy**

**Courses:** Climate Policy Design; Energy and Society; Energy Markets; Modeling and Quantitative Methods for Public Policy; Law and Public Policy; Political Agency Management; Corporate Innovation; and Economics for Public Policy Analysis

**Worcester Polytechnic Institute (WPI), Worcester, MA** May, 2001

**Bachelor of Science in Electrical and Computer Engineering** with concentration in computers

Minor: Computer Science

---

---

## **UNIVERSITY PROJECTS**

**Lead Architect of Data Logging System; WPI; Mountain View, CA** Spring, 2001

- Product completed included a portable data logger and communication interface with a PC
- Designed and implemented hardware (IR communication system, shock and temperature system)
- Led embedded and application software design and implementation (Visual Basic, Assembler)

**Analyst of Effectiveness of Playgrounds; WPI; London, England** Spring, 2000

- Analyzed data collected through comparisons of common issues
- Presented recommendations for improvement using a weighting system for prioritization

---

---

## **TECHNICAL SKILLS**

- **Computer Languages:** C/C++, PHP, Javascript, HTML, Visual Basic, Various Assembler Languages
- **Computer Programs:** Stata; Microsoft Office, Visio, Visual Studio .NET; Adobe FrameMaker, Photoshop; Drupal

---

---

## **ACTIVITIES AND AFFILIATIONS**

**Blogger on Domestic and International Energy Policy Issues, Cleantechies.com** 2009

**Vice-President for Goldman School of Public Policy, Berkeley Energy and Resources Collaborative (BERC)** Spring, 2007 - Fall, 2008

**Co-chair, Environmental Policy Group, UC-Berkeley** Fall, 2008

**Editor, Policy Matters Policy Journal, UC-Berkeley** Spring, 2008

**Active Member, Institute of Electrical and Electronics Engineers (IEEE)** 1999 - 2007