Elliot Svensson, P.E.

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**Project Engineer** **& Project Manager** **June 2018 – June 2020** **(supervisory since June 2019)**

Eichleay, Pittsburg, CA

As leader for small capital projects at the 100-year-old Dow Chemical / Corteva Agriscience plant:

*Engineering*

* Supervised consultants on process equipment projects up to $3 million from FEL — construction.
* Maintained SharePoint library of relevant project files needed by outside consultants.
* Integrated SAP procurement with traditional workflows through Excel-based automation.

*Management*

* Tracked ongoing subcontracts and forecast spending. Improved internal timesheet system in Excel.
* Approved invoices and managed contingency.
* Hosted weekly team safety meetings and produced safety content for 75 workers.
* Managed modifications to permits for in-water work in the SF Bay Delta with three public agencies.

**Project Engineer Feb 2017 – May 2018**

WorleyParsons (now known as Worley), Richmond, CA

As member of the project management team to a $1 billion project at Chevron Richmond Refinery:

* Represented the project to city building dept in order to obtain >215 permits and revision packages.
* Created an original AutoCAD macro to draft plot plans that locate items from a list of coordinates.
* Automated the workbook to track, prioritize, and streamline permit applications from start to finish.

**Project Engineer** **Oct 2014 – Feb 2017**

Jacobs (acquired by Worley in 2018), Richmond, CA

As management representative to small and large capital projects the Chevron Richmond Refinery:

*Engineering*

* Wrote engineering specifications for complex projects to be executed during shutdown.
* Computed ten years of production losses due to maintenance outages of an older compressor plant.
* Checked design packages against 3D‐model, project specifications, and field conditions.

*Management*

* Coordinated an exploratory project for improving reliability of hydrogen booster compressors.
* Resolved technical issues with local and corporate subject-matter experts and other stakeholders.
* Provided mechanical and managerial field support for $35 million piping replacement project.

**Senior Engineer, OEM Manufacturing / Applications / Software June 2013 – Oct 2014**

Heliodyne, Richmond, CA

As lead engineer at a manufacturer of proprietary solar hot water components and systems:

*Engineering*

* Made spec sheets for diverse mass-produced components using SolidWorks, applying GD&T.
* Sized pumps for arrays with heat exchangers, roof units, and tanks. Created and improved designs.

*Product Management*

* Troubleshot and developed improvements to legacy PLC systems: control code, data management, consumer & commercial HMI-over-HTML, web-based monitoring / monitoring web server.

*Applications Support*

* Evaluated potential use cases and proposed a large multi-site retrofit system.
* Walked new builds for quality control. Commissioned systems. Trained installers and owners.

**Product Engineer June 2010 – June 2013**

SunPower Corporation, Richmond, CA

As problem-solving engineer within this manufacturer of utility‐scale solar power systems:

*Design Engineering*

* Originated & implemented mechanical improvements to cost, quality, and schedule.
* Applied GD&T for quality improvements with this ISO 9001 manufacturer.
* Delivered a welding design change (groove to fillet) that saved >$60,000 using SolidWorks.

*Failure Analysis and Recovery*

* Interpreted standards and company specifications for construction, manufacturing, and QC of steel components manufactured both in the field and in factories.
* Identified root‐causes for various failures of bolt, screw, and weld joints.
* Developed diagram‐rich maintenance and retrofit procedures for existing products.

**Project Engineer August 2007 – December 2009**

SWAT Energy, Richmond, CA

As design team leader for capital projects at Chevron Richmond Refinery:

* Provided engineering leadership for the design team of a $25 million project.
* Coordinated piping design, civil/structural, process, stress, and other disciplines.
* Interfaced with operators, engineers, and quality personnel to satisfy stakeholder requirements.
* Reviewed drawings to identify issues with quality, manufacturability, cost, serviceability, code compliance, client acceptance, and technical qualification.

**Process Kit Engineer May 2005 – June 2007**

Engenuity Systems, Fremont, CA

As mechanical design engineer at this start-up for processing LCD display glass semiconductors:

* Envisioned, designed and tested high voltage plasma equipment in SolidWorks and AutoCAD.
* Evaluated design criteria using finite element analysis and conventional calculations.
* Assembled and tested designs. Produced product documentation.
* Designed retrofits and improvements for field deployment.

**An Engineering Manager’s Toolbox**

**Engineering Planning**

* Customer Needs and Project Scope
* Design Package Review
* Cost Forecasting
* Layouts and Plans
* Management of Change
* Estimating
* Materials Take-Offs
* SolidWorks

**Manufacturing**

* Procurement Planning
* Geometric Tolerances
* Parts Specification Sheets & QC
* Statistical Methods
* Design for Manufacturing
* Weld Design and NDE
* Bolted Joint Analysis

**Business Tools**

* Root Cause Analysis
* Failure Mode and Effects Analysis (FMEA)
* Custom Tracking Spreadsheets
* MS Project / Primavera (P6)
* SAP – SAP Automation with MS Excel

**University of California, Berkeley, College of Engineering**

Bachelor of Science, Mechanical Engineering August 2000 ‐ December 2004

**Central Contra Costa Sanitary District Co‐Op Engineering Internship Program**

Plant Operations Dept. Internship (Instrumentation Engineering) January 2004 – June 2004

**California Board for Professional Engineers & Land Surveyors**

Professional Engineer, Mechanical License # 35321

**American Society of Mechanical Engineers**

Member 2005 – Present