

Justine Chen Lo

Colorado Springs, CO 80922 • 719-440-4940 • justine@justineclo.com

Summary: Highly motivated electrical/software engineer working in fast-paced environments. Experienced in accelerated design to production process. Strong written and verbal communication skills. Demonstrated enthusiasm and ability to learn both online and offline to meet project needs and wants. Knowledgeable in management and technical aspects of software and hardware implementation. Skilled in project coordination, design, problem solving, creativity, working in teams and as an individual.

Skills:

Software: Ruby, VB 6.0, C++, Java, VB.net, C#, Drupal, SuseLinux, PLC Directsoft, ActionScript 3.0, Flash, Vm, Cmore Panel, Siemens Step 7, Siemens WinCC, Mysql, Drupal, P-spice, Multisim, Matlab, Simulink, Logicworks, Solidworks Mathcad, PC Logic Board Layout, Autocad, SQL Server,

Hardware: Stanford 2032, Agilent 29302, HP 20392, HV supplies, EUV laser, Motorola 68HC12, PLC05, Analog Circuits, USB Data Acquisition Devices, Servos, Steppers, Siemens Architecture
(more available on request)

Related Experience:

CNS Electronics – Shenzhen, P.R.C (2010-Present)

Engineering Manager (2010-Current)

- Managed the design of new circuits for a variety of design projects involving the evolution of existing consumer electronics and the development of entirely new automotive component systems. This includes the product concept development, product requirement definition, validation, detailed design, analysis, implementation, verification, and optimization in a production environment.
- Responsible for the coordination of cross functional teams and suppliers to ensure the overall design and that each specified sub-components meets all requirements.
- Responsible to solve technical problems in a fast-paced product development environment.
- Closely communicated with customers through all cycles of product customization process.
- Implemented design and production processes, increasing efficiency and profit margins.
- Co-designed fully automated Net-Zero Home automation control system.

Meyer Burger/Diamond Materials – Colorado, USA (2005-2010)
Senior Software Design Engineer (2006-2010)

- Collaborated with team of over 50 including mechanical, electrical, and software engineers, production, purchasers, and designers to complete and troubleshoot finished projects.
- Co-designed fully automated stations installed in a \$100,000,000 automated Solar silicon processing cell with Siemens/AD architecture.
- Facilitated discovery sessions on new designs to ensure interfacing cohesion.
- Designed HMIs from the ground up with products currently sold and utilized world-wide generating annual revenue of over \$8,000,000.
- Products designed and produced control large range of axis movement including: SQ300 (36 axis), SR200(14 axis), 6X00(7 axis), Internal Production Machines (6 Axis), CR200 (60 axis).
- Co-designed product including .Net architecture interfacing PLCs via TCP Modbus for complex wire cutting operations.
- Co-architected internal MES system integrating C#, OPC, SQL Server, PLC automation.
- Implemented unique and efficient architecture of integrating Flash and ActionScript 3.0 with .Net.
- Followed products through complete lifecycle including conception, design, production, testing, initial customer setup, upgrades.

Software Engineer (2006)

- Co-designed a prototype overseas in a multi-company joint operation.
- Part of four member development team which created second generation diamond wire making equipment.

Electrical Engineer (2005-2006)

- Co-designed analog circuitry and managed production with outhouse manufacturer.
- Created and documented electrical schematics.
- Successfully troubleshoot electrical assemblies at customer sites.
- Conducted electronics overview and functionality training to distributors.

Colorado State University - Colorado, USA (2001-2005)

- Research Internship for Colorado State University and National Science Foundation.
- Collaborated in projects involving a Compact High Voltage Capillary Discharge EUV Laser.
- Demo-sat, Colorado State University and NASA.

Education:

Colorado State University BS EE 2005