

Martin Sala, Engineering Physicist  
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607-769-6385

Dear Hiring Manager,

I am a multidisciplinary engineer that enjoys solving “must be fixed now or die” problems and working with people; my passions being *Hardware Reverse Engineering* and *Sensor/ Instrument Design*. Over the years, I have helped bring Success to the organization performing the following tasks:

- Designed, lead and coordinate the improvement of process controls and measurements, First-of-Kind Lab demos, prototype, and deploying of new or improved equipment and systems utilizing Electro-Optical Methods
- Lead activities improving process controls and related data-acquisition instrumentation in multidisciplinary teams, defining the scope of work, budgeting, relating to Leadership, training on new systems and working with internal and external manpower
- Skilled in design, application and maintenance of Mechatronic-Systems/ Devices

Think *detective*. Think *Creative*. Think *Productive*.

Skills needed to achieve this level of competency include:

- **Instrumentation Design** – Analog circuit design, Lab Instruments, Industrial Measurements for Extreme Locations and Hardened Reliability; Medical Devices **including FDA 510k**
- **Designed and Deployed Electro-Optical Instruments** – Measuring microscopic inclusions in HPFS at National Ignition Facility; On-the-Draw parameters of 3m x 3m display glass with LASER Interferometry; X-Ray Optics; Industrializing Con-Focal Microscopy etc.
- **Creativity** – 7 US Patents (one pending), two related to the transportation industry and four relating to production of nano-particulate semiconductors
- **Troubleshooting and Fixing** bad processes and equipment, failure analysis; *fix-it-now-or-die* situations
- **Technical writing/** documentation – making everything clear so no further explanation is needed
- **Working With All Levels** – Communicating, learning, mentoring, technical writing from Customer to Technician to Executive; Team-Focused
- **Penchant for Reverse-Engineering** of Hardware; starting from *Ground-Zero* if necessary
- **Lust for Learning** - Attending meetings, lectures, read everything (including fiction), discussions with those of opposite views; keep notebooks on everything.
- Integrating *Lean*, *TQM*, *6- $\sigma$*  and *Common-Sense* into one consistent, User-friendly package
- **Design and Conduct and use NDE<sup>1</sup>** including SEM, CT. X-ray, Ultrasound and more
- **Machine Shop/ Proto-type** abilities – what I design I can build and later deploy

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Through years of experience as a multidisciplinary engineer and a *people-person* I am able to look across the disciplines assisting with identifying the problem and delivering a solution, evolving an idea from the back of the napkin to a finished product.

Thriving as a member of a team-based environment, or I can function alone and without supervision, documenting and reporting progress to Leadership.

I seek a situation where I can use my mind to its fullest, my hands to create, exceed the expectations of the organization and take home a feeling of accomplishment at the end of the day.

Cell-phone communications here is very poor; please follow-up any VMS with an email. Please review my website at <http://msala.us> and for some career successes: [http://msala.us/Successes\\_Working.html](http://msala.us/Successes_Working.html)

I am receptive to Relocation, some Travel (International okay) and am able to begin on an immediate basis.

Respectfully submitted,



Martin

<sup>1</sup> NDE = *Non Destructive Evaluation*