

# MICHAEL D LONG

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## EMPLOYMENT

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- 1/2014-Present **FEI Company** Hillsboro, OR  
Sr. Mechanical Engineer on large dual beam SEM\TEM systems.
- 4/2012-12/2013 **Gigapan** Portland, OR  
Lead Mechanical Engineer on robotics and photography equipment. Responsible for program management, conceptual design, product design, creating and maintaining accurate engineering documentation, patent and IP process, and assisting with sustaining engineering needs. Fulfills role as technical expert to the marketing, sales, and service organizations.
- 1/2007-2/2012 **Xerox** Wilsonville, OR  
Mechanical Engineer on A3 and A4 Solid Ink printers over entire product life cycle: concept, prototype, engineering development, production design, manufacturing, and product sustaining. Detailed documentation of part and assembly designs, revision documentation, system level components and interactions, and quote packages. Integration of electro-mechanical systems with software. Worked extensively with other Xerox sites and multiple overseas Asian partners.
- 6/2005-12/2006 **Michael Long Photography: Expedition Kayaker/Photographer** Portland, OR
- 5/2002-6/2005 **Hewlett-Packard: Digital Projection and Imaging Group** Corvallis, OR  
Mechanical Engineer in R&D efforts and technology development. Key focus of position was to develop an intellectual property and patent portfolio to establish Hewlett-Packard as a leader in the digital projection industry. Developed new technologies and methods for light source generation and integration, DLP and LCD light engine design, and designed electro-mechanical image shifting mechanisms for Wobulation technology.
- 4/2001-5/2002 **Hewlett-Packard: Mobile Computing Division** Corvallis, OR  
Mechanical Engineer on consumer and commercial notebook design, thermal analysis, innovation, and product sustaining with overseas Asian partner.
- 6/1999-4/2001 **Oregon State University: Teaching\Research Assistant** Corvallis, OR  
Developed new testing methods and procedures. Conducted research into mechanical properties of aluminum alloys and material properties of FCC materials.

## EDUCATION

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- Oregon State University** Corvallis, OR  
MS Materials Science\Mechanical Engineering - Cum Laude  
Master's Thesis: Subgrain Microstructure of 5-Power Creep of Copper  
BS Mechanical Engineering
- Sunset High School** Beaverton, OR

## SKILLS AND AWARDS

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CAD: Pro-Engineer, SolidWorks, Unigraphics	9 Issued US Patents
NX AutoCAD, GD&T, ASME Y14.5, FEA	6828760 Electronic device that adjusts operation
Prototyping/machine shop proficiency	6963319 Image display system and method
Microcontroller programming	6972913 Two axis tip-tilt platform
Six Sigma: DfLSS, DOE, DFM, DMAIC	6975372 LCD and methods and systems
MS Office\Windows proficiency	7028202 Power adapter identification
Eagle Scout,	7101063 System and methods for integrating light
Class V Whitewater Kayaker	8186676 Reducing vibration and noise
	8587849 Imaging Systems, imaging device...