

# MICHAEL D LONG

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## EMPLOYMENT

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7/2016-Present **HP Inc.: PageWide and 3D** Vancouver, WA

Sr. Mechanical Engineer on PageWide 2D and 3D MJF printer platforms. Responsible for subsystem architecture, team management, and detailed mechanical design. Assisting with factory and field service issues. Manage completion of design projects by junior and contract engineers within scoped project timelines and budgets.

1/2014-6/2016 **FEI Company** Hillsboro, OR

Sr. Mechanical Engineer on 300mm wafer dual beam SEM\TEM systems. Responsible for mechanical tasks related to new product development, module or component integration, conducting feasibility design studies, and assisting with factory and field service issues. Manage completion of design projects by junior and contract engineers within scoped project timelines and budgets.

4/2012-12/2013 **Gigapan** Portland, OR

Mechanical Engineer on robotics and photography equipment. Responsible for program management, conceptual design, product design, creating and maintaining engineering documentation, patent and IP process, and assisting with sustaining engineering needs. Fulfilled role as technical expert to the marketing, sales, and service organizations.

1/2007-2/2012 **Xerox** Wilsonville, OR

Mechanical Engineer on solid ink printers over entire product life cycle from concept generation to sustaining activities. 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-Present **Michael Long Photo** Portland, OR

Photographer, Engineer, and Whitewater Evangelist creating custom photography solutions.

4/2001-6/2005 **Hewlett-Packard: MCD & Digital Projection and Imaging Group** Corvallis, OR

Mechanical Engineer in R&D efforts and technology development. 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 Wobulator technology.

## 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: SolidWorks, Pro-Engineer, Creo, NX,	10 Issued US Patents -
FEA & CFD Analysis, Teamcenter	6828760 Electronic device that adjusts operation
GD&T: ASME Y14.5, ISO	6963319 Image display system and method
Prototyping/machine shop, 3D printing	6972913 Two axis tip-tilt platform
Code: C, HTML, Java, Python, Arduino	6975372 LCD and methods and systems
Six Sigma: DfLSS, DOE, DFM, DMAIC	7028202 Power adapter identification
MS Office\Windows proficiency	7101063 System and methods for integrating light
Eagle Scout, Class V Kayaker	8186676 Reducing vibration and noise
	8587849 Imaging Systems, imaging device...