Job Title: Machine Learning Engineer – Fremont CA

Position Description

- **Job Location:** Fremont, CA
- **Job Level:** Entry Level
- **Level of education:** BS or higher
- **Job Type:** Full Time
- **Date Updated:** July 24, 2020
- **Years of Experience in this role:** 1+
- **Starting Date:** Immediate

Job Description:

SLD Laser is looking for a Machine Learning Engineer who will be responsible for building Machine Learning and Artificial Intelligence models to optimize fab productivity. The right candidate will build AI products covering from collecting images/data to deploying model in line.

Specific Responsibilities

- Drive and develop automated visual inspection process enabled by computer vision and machine learning.
- Develop models to analyze optics images generated by various metrology equipment.
- Take responsibility for the full software development cycle: architecting, developing, testing, deploying, and monitoring/maintaining services.
- Train models, fine tune parameters, define metrics, and perform error analysis in a PyTorch/Tensorflow framework.
- Employ programming to clean, massage, and organize data. Interpret and analyze large volume Fab data utilizing statistical methods.
- Collaborated with stakeholders including product management, process and failure analysis teams to improve model accuracy.

Experience and Skills

Typically requires 1-3 years demonstrated experience with any of the following activities:

- BS in computer science or electrical engineering field.
- Experience in machine learning, computer vision, Statistics, and deep learning.
- Experience in machine learning framework such as Keras, PyTorch or Tensorflow
- Strong programming skills in Bash (Unix), Python and SQL. LabVIEW is a plus.
- Experience supporting and working with cross-functional teams in a dynamic environment.
- Previous experience in semiconductor manufacturing or a university lab is preferred
- Previous experience in metrology equipment AFM, SEM, Nomarski interference contrast is preferred