Applications Engineering 6 month Co-Op
KLA-Tencor Corporation; eBeam division

Division Description

KLA-Tencor’s EBEAM division designs and manufactures Scanning Electron Microscope (SEM) wafer inspection and review equipment. There are two product lines, with one optimized for wafer inspection (fast defect finding) and the other optimized for ultra-high resolution defect review. Each product’s life cycle is about 2 years from early development to release. The market for e-beam inspection and review is expected to have strong growth in the next few years, complementing and supplementing optical wafer inspection.

Job Duties

Internship Project Title: Development of log analysis utility for debugging.
Duration: 6 months, from June to December, 2014

The eBeam Applications engineering group is in the process of improving SW logging to ensure that field Applications Engineers supporting our customers worldwide have tools need to debug issues and drive corrective actions on our latest generation wafer review tools. Often combined data from different logs point to the issues and we need to develop automated capabilities to reach this conclusion. To help with the development of log analysis utilities for debugging, KLA-Tencor is looking for an intern eager to participate to an exciting project. As part of this project intern will be required to -

- Understand the different issues faced by application engineers during tool operation and how they are debugged today.
- Understand the different logs output by SW and how it is used today for analysis.
- Create automated parsers/utilities to combine information from logs and derive conclusions with visual outputs.
- Document different issue and how the newly developed utility can be used.

In order to achieve these objectives, the candidate will work closely with members of the Applications, Engineering and SW groups.

Preferred Qualifications

- Candidate must have Bachelor's degree and be working towards a Masters or PhD in Computer Engineering or Information System
- Competent with Computer languages such as C/C++, C#, Java, VB, Python
- Must have excellent communication, organizational, analytical leadership, and interpersonal skill.
- Candidate must also be self-driven, yet a strong team player.
- Basic organization and project management skills, including meeting deadlines and communication and alignment with team
- Commitment to quality and details

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