

Software Development – Test Development & Firmware Validation

We are looking for candidates to perform validation test software development. This person participates in the creation, development and maintenance of a suite of validation test software for firmware validation of our products. The suite of validation test software helps the validation team to properly assess firmware readiness of our drive products for customer qualifications and production releases. They are used in the Functional Integrity Test Lab that performs firmware validation and compatibility testing of our hard drive products. Following is the set of knowledge and skills desired in the individual:

Responsibilities include the following:

- Ability to understand and analyze firmware features
- Design test cases for firmware validation
- Generate formal test requirement specs
- Create validation test software written in C or Java under internally developed diagnostics tools to help identify firmware issues
- Debug test failures to help identify and isolate firmware issues. Assist and work with firmware engineers closely to help guide issues through to resolution
- Work with customer and internal WD teams to understand and incorporate appropriate customer test requirements into our process
- Adhere to established engineering methodologies through the use of version control software and issue tracking database

Requirements:

- Strong programming skills (C, C++ Java) with object oriented coding experience
- Strong debugging and troubleshooting skills
- Familiarity with embedded firmware development and/or validation
- Knowledge of disk drive interface and command protocol (SATA/SAS/SCSI) - desirable
- Familiarity in using Protocol Analyzers to understand and analyze traces for failure investigation.
- Familiarity with PC hardware, software, and operating systems. Knowledge of servers, RAID environments and enterprise applications.
- Excellent written and verbal communication skills.
- BS or MS degree in CS, CE.