
Latent Damage and Reliability in Semiconductor Devices

Advisor: Dr. Randall Geiger

Client: Dr. Randall Geiger, EcpE

Members (roles):

Sean Santella (Leader)

Jaehyuk Han (Webmaster)

Hayle Olson (Communication Leader)

David Ackerman (Key Concept Holder)

Weekly Summary:

We held both team and advisor meetings this week. We were able to tinker with the tri-state buffers that Dr. Geiger had suggested, but are still waiting on the insulating varnish to continue our testing of the stressing condition.

Meeting Notes:

Team Meeting (March 1st at 2PM in Coover 3014)

Duration: 1 Hour

Members Present: Sean Santella, Jaehyuk Han, Hayle Olson, David Ackerman

Notes: During this team meeting we continued to try to find a stressing condition for our DUTs. Sean checked to the progress on ordering the insulating varnish. David continued to tinker with the stress PCB and the tri-state buffer that Dr. Geiger had suggested.

Advisor Meeting (March 3rd at 1PM in Coover 1219)

Duration: 1 Hour

Members Present: Dr. Geiger, Sean Santella, Jaehyuk Han, Hayle Olson, David Ackerman

Notes: During this advisor meeting we were able to discuss with Dr. Geiger our progress with the tri-state buffers. We plan to look into a more updated version of what we used.

Weekly Accomplishments:

- We started to test with the tri-state buffers
- The Insulating Varnish is on order and should arrive mid next week.

Plans for Next Week:

- Start developing a new PCB design for our burn-in boards.
- Research Tri-State Buffers.
- Research components with high temp. thresholds.
- Find a stressing condition that will destroy 50% of our devices.
- Find burn-in temperature.

Pending Issues:

- None

Individual Contributions:

Sean Santella: Attended both team and advisor meetings, and conducted component research.

Jaehyuk Han: Attended both team and advisor meetings.

Hayle Olson: Attended both team and advisor meetings, and wrote weekly report.

David Ackerman: Attended both team and advisor meetings, and tinkered with the stress PCB.

Hourly Contributions:

<u>Member:</u>	<u>Weekly Hours:</u>	<u>Semester Hours:</u>	<u>Yearly Hours:</u>
Sean Santella	3.5	12.0	65.0
Jaehyuk Han	2.0	10.0	46.5
Hayle Olson	2.5	13.5	60.0
David Ackerman	4.0	14.5	56.5

Semester Total: 50.0 Hours

Yearly Total: 228.0 Hours