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**Latent Damage and Reliability in Semiconductor Devices**

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**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)

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**Weekly Summary:**

This week we had our four meeting with our Advisor as well as our first team meeting. We discussed the research we found and how we need to look into the citations a bit more. Dr. Geiger took us up to the VLSI lab to look at a few things we will need for our research. Our team meeting helped us to get more organized and get everyone on the same page.

**Meeting Notes:**Advisor/Client Meeting (Sept. 23<sup>rd</sup> at 9AM)*Duration:* 1 Hour*Members Present:* Dr. Geiger, Sean Santella, Hayle Olson, David Ackerman*Notes:* This meeting was held with Dr. Geiger to discuss the research we found as well as take a trip up to the VLSI lab where we were shown the burn-in boards that were already created.Team Meeting (Sept. 23<sup>rd</sup> at 5PM)*Duration:* 30 Minutes*Members Present:* Sean Santella, Jaehyuk Han, Hayle Olson, David Ackerman*Notes:* This team meeting was held in the TLA in Coover to discuss our next steps as a team and to briefly discuss our website. We were able to assign specific research papers to each team member. We also shared our website progress with each other.**Weekly Accomplishments:**

We read the articles and papers specifically from the EOS/ESD Symposium (as Dr. Geiger had suggested) and looked into corresponding articles that had sited these papers. We also developed our website and were able to add our research and weekly reports.

## Plans for Next Week:

- Continue research
  - Latent damage within CMOS devices
  - Testing for latent damage
- Continue to develop our website
- Start developing a project plan
  - Work on a timeline
- Look over schematics and details of the burn-in boards that are being provided

## Pending Issues:

The oven we will need to use for burn-ins for our research is currently not hooked up. Dr. Geiger is looking into this.

## Individual Contributions:

Sean Santella: Attended lecture, weekly advisor/client meeting, and weekly team meeting, and developed website.

Jaehyuk Han: Attended lecture and weekly team meeting, researched related articles and papers.

Hayle Olson: Attended lecture, weekly advisor/client meeting, and weekly team meeting, wrote weekly report, and researched related articles and papers.

David Ackerman: Attended lecture, weekly advisor/client meeting, and weekly team meeting, researched related articles and papers.

## Hourly Contributions:

<u>Member:</u>	<u>Weekly Hours:</u>	<u>Total Hours:</u>
Sean Santella	4.0	11.0
Jaehyuk Han	3.0	10.0
Hayle Olson	3.5	11.5
David Ackerman	3.5	10.5