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## 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)

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### Weekly Summary:

We held two team meetings and an advisor meeting this week. We created a new burn-in PCB design and also created our project poster. We practiced and presented our presentation to our instructor.

### Meeting Notes:

Team Meeting (April 12<sup>th</sup> at 2PM in Coover 3014)

*Duration:* 1 Hour

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

*Notes:* During this team meeting we divided our time to continue and finish our work efficiently. Sean worked on creating the burn-in PCB. Hayle worked on designing the project poster. Jaehyuk and David worked on tinkering with the ESD stressing condition and board.

Advisor Meeting (April 14<sup>th</sup> at 2PM in Coover 3014)

*Duration:* 1 Hour

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

*Notes:* During this advisor meeting we discussed with Dr. Geiger our progress with the burn-in PCB design. There are currently two devices in the new design that do not meet the temperature thresholds, these are proving difficult to find.

Team Meeting (April 14<sup>th</sup> at 1PM in Coover 3014)

*Duration:* 1 Hour

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

*Notes:* During this team meeting we again divided our time in order to finish our work efficiently. Hayle continued to work on the project poster. Sean, David, and Jaehyuk worked on tinkering with the ESD stressing condition.

### **Weekly Accomplishments:**

- Designed our project poster.
- Developed a new PCB design for our burn-in boards.

### **Plans for Next Week:**

- Find a stressing condition that will destroy 50% of our devices.

### **Pending Issues:**

- None

### **Individual Contributions:**

Sean Santella: Attended both team meetings, an advisor meeting, designed burn-in PCB, and tinkered with the ESD stress condition.

Jaehyuk Han: Attended both team meetings, an advisor meeting, and tinkered with the ESD stress condition.

Hayle Olson: Attended both team meetings, an advisor meeting, created project poster, and wrote weekly report.

David Ackerman: Attended both team meetings, an advisor meeting, and tinkered with the ESD stress condition.

### **Hourly Contributions:**

<u>Member:</u>	<u>Weekly Hours:</u>	<u>Semester Hours:</u>	<u>Yearly Hours:</u>
Sean Santella	16.5	47.5	100.5
Jaehyuk Han	5.0	27.0	63.5
Hayle Olson	12.5	42.0	88.5
David Ackerman	9.0	39.0	81.0

**Semester Total: 155.5 Hours**

**Yearly Total: 333.5 Hours**