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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 met with our Advisor and discussed our progress in ordering the electric fencer and the circuitry we will need to create when using our electric fencer. We also had our weekly team meeting where we worked on troubleshooting the burn-in PCB. We completed our design document.

**Meeting Notes:**Advisor/Client Meeting (Oct. 21<sup>st</sup> at 9AM)*Duration:* 1 Hour*Members Present:* Dr. Geiger, Sean Santella, Jaehyuk Han, David Ackerman*Notes:* This meeting was held with Dr. Geiger to discuss our progress in ordering the electric fencer. The parts shop still had not ordered it and we had planned on purchasing it locally. We discussed specific details about the diodes we will need to use when setting up our electric fencer.Team Meeting (Oct. 21<sup>st</sup> at 5PM)*Duration:* 1.5 Hours*Members Present:* Sean Santella, Jaehyuk Han, David Ackerman*Notes:* This team meeting was held in the TLA in Coover to troubleshoot with our burn-in PCB to understand it's functionality. We also went over our design document and discuss what we needed to finish before the end of the week.**Weekly Accomplishments:**

We have a better understanding of what components we need to use with our electric fencer, and we also have a better understanding of how our burn-in PCB functions. We also successfully completed the first version of our design document.

### Plans for Next Week:

- Purchase an electric fencer locally
- Order diodes & resistors from part shop
- Start experimenting with the electric fencer to better understand it's functionality
  - Stress devices if electric fencer is functioning as desired

### Pending Issues:

- We do not have access to the 3<sup>rd</sup> floor VLSI lab. Dr. Mina is looking into this for us.
- Currently waiting on parts from the part shop.

### Individual Contributions:

Sean Santella: Attended weekly advisor and team meetings, worked on design document, PCB soldering, and figuring out parts.

Jaehyuk Han: Attended weekly advisor and team meetings, worked on design document, and PCB research and soldering.

Hayle Olson: Attended weekly advisor and team meetings, worked on design document, PCB soldering, and wrote weekly report.

David Ackerman: Attended weekly advisor and team meetings, worked on design document, and PCB research.

### Hourly Contributions:

<u>Member:</u>	<u>Weekly Hours:</u>	<u>Total Hours:</u>
Sean Santella	5.0	27.5
Jaehyuk Han	3.0	23.0
Hayle Olson	5.0	25.0
David Ackerman	3.5	24.5