

sdmay18-12: Pilot Biometrics - ECG waveform captures

Week 10 Report

November 24 - December 1

Team MembersZachary Glanz — *Driver Design Lead*Andrew Jones — *Algorithm Design Lead*David Kirpes — *Circuit Design Lead*Justin Bader — *Filter Design Lead*Kory Gray — *Operating Systems Lead*Ryan Gallus — *Team Lead***Summary of Progress this Report**

This week, our team did some final work on the hardware components and wrapped up research on ECG distress. With the new board and ECG sensors on the way, the team completed some final testing on the old board and board support package. More development was done on the main algorithm based on our ECG research findings.

Pending Issues

Waiting for new microcontroller board with board support package, as well as ECG Sensors. Our client has said both will arrive by the start of next semester.

Plans for Upcoming Reporting Period

For this upcoming reporting period, we are working on our final presentation and report out to the client. We will also be finalizing our plan for next semester and updating documentation.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Zachary Glanz	Learned process to installing BSP on the board. Failed to figure out how to install it on our current board (for which it was not designed).	4	36
Andrew Jones	Found article online about a study on driver stress using ECG readings. Read article and recorded useful information for use in our main algorithm.	3	32
David Kirpes	I worked on our final presentation and we met to practice the presentation.	3	37
Justin Bader	Worked on final presentation.	2	35
Kory Gray	Helped zach with BSP installation, learned the	4	33

	process in order to more smoothly install it on our new board. Also worked on final presentation.		
Ryan Gallus	Worked on updating the team website, project plan, design document, and the final presentation. Reviewed all our progress this semester to update the schedule for next semester.	4	40