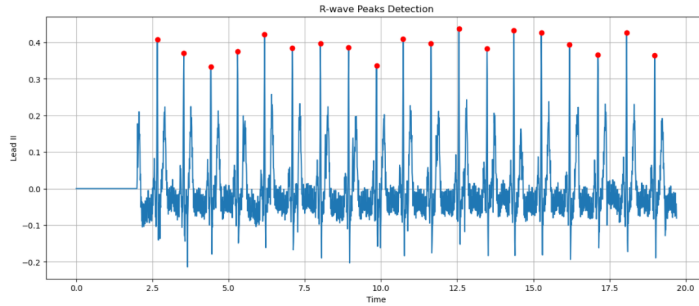


Katreese Pineda
Oct. 26, 2023
Lab 10

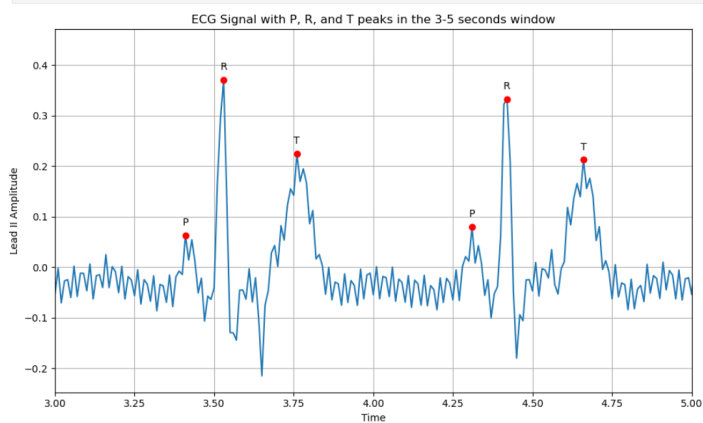
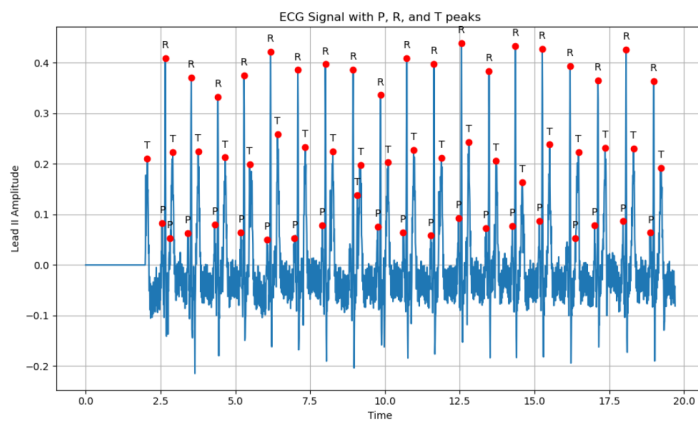
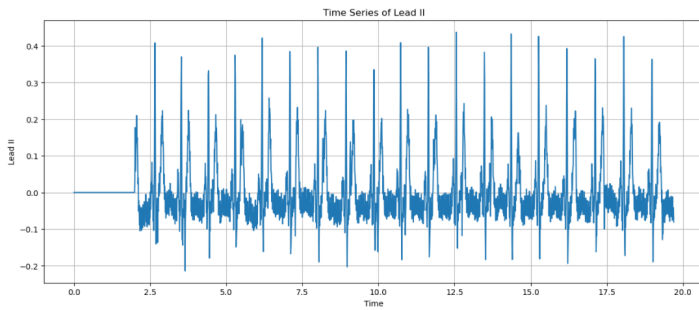
Lab 10 EKG

Purpose: The purpose is to understand how ECG machines and data work and what it keeps data of, that being the depolarization of the Atria, the depolarization and the repolarization of the ventricles. We are to see the P,Q,R,S, and T waves in data form and see how they correspond with the actions of the four chambers of the heart.

Procedure: We are to set up the equipment ECG machines as we did in lab 9. This time we are to only use three wires which include the colors, black, red, and green. We would receive the link for the lab in the professor's Github and open a new file to be able to gather our own ECG data. The red wire would go to the left ankle, black on the right wrist, and green on the right ankle. The subject is to sit quietly with their hands on their lap, if they were to move the ECG will record noise. We will record their data for one minute and locate each wave (P, Q, R, S, and T).



Results:



Discussion: In my data for this recording, I stayed as still as possible to make sure that the waves of each depolarization and repolarization of the chambers of the heart were visible in the data. I also wanted to experiment what it would look like if I were to move a lot during, so I tried

it but the data just looked too noisy, so we deleted that trial. I was able to pinpoint the waves and each of their states before the graph data I've done on Colab, so I feel that was very good practice to see if there are any abnormalities in future ECG recordings later on in my career.

Conclusion: In this lab, we were to learn the different waves and actions of both the Atria and ventricles of the heart. We are able to see each wave in our own data of our own EKG recordings. We also can now tell the difference between a healthy heart and a heart that may have either ventricle or atrial fibrillation by the lack of or excess amounts of the Q, R, S waves. In this lab my partner and I both had our EKG recorded and located the waves in the data.