# Analyzing the Correlation of Blood Pressure Monitoring Using Pulse Transit Time

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Pulse Transit Time (PTT) has been proven in many studies to correlate with blood pressure. When PTT goes down, blood pressure goes up, and vice versa. As a result, PTT can be used to monitor blood pressure in patients with hypertension. This can be accomplished by placing two PPG (photoplethysmography) sensors at different points on the finger and measuring the difference in blood arrival. The difference between these arrivals is the Pulse Transit Time. My project aims to find the most accurate way to use PTT to monitor blood pressure by testing different PTTs at different points in the body and with different blood pressures.

**Awards Won:**