Hope College Digital Commons @ Hope College

17th Annual Celebration of Undergraduate	Celebration of Undergraduate Research and
Research and Creative Performance (2018)	Creative Performance

4-13-2018

Development of Wireless Sensing Unit for Environmental Noise Monitoring

Taylor Rink

Follow this and additional works at: https://digitalcommons.hope.edu/curcp_17

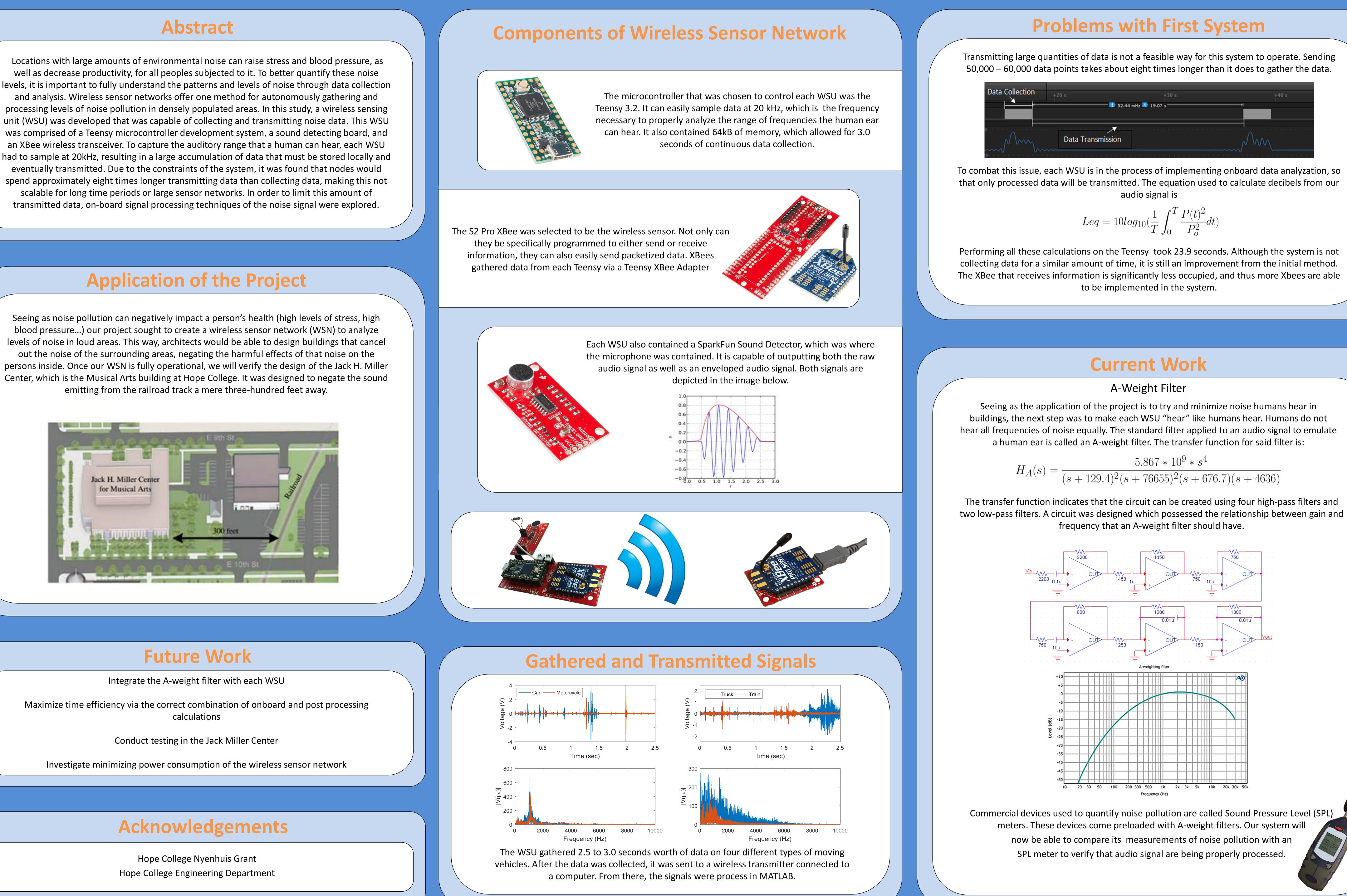
Recommended Citation

Repository citation: Rink, Taylor, "Development of Wireless Sensing Unit for Environmental Noise Monitoring" (2018). 17th Annual Celebration of Undergraduate Research and Creative Performance (2018). Paper 14. https://digitalcommons.hope.edu/curcp_17/14 April 13, 2018. Copyright © 2018 Hope College, Holland, Michigan.

This Poster is brought to you for free and open access by the Celebration of Undergraduate Research and Creative Performance at Digital Commons @ Hope College. It has been accepted for inclusion in 17th Annual Celebration of Undergraduate Research and Creative Performance (2018) by an authorized administrator of Digital Commons @ Hope College. For more information, please contact digitalcommons@hope.edu.



emitting from the railroad track a mere three-hundred feet away.



Noise Monitoring Using a Wireless Sensor Network Taylor Rink, Courtney Peckens, PhD Hope College Engineering Department



$$Leq = 10 log_{10}(\frac{1}{T}\int_{0}^{T}\frac{P(t)^{2}}{P_{o}^{2}}dt)$$

$$\frac{5.867 * 10^9 * s^4}{-129.4)^2(s + 76655)^2(s + 676.7)(s + 4636)}$$