

Valparaiso University ValpoScholar

Symposium on Undergraduate Research and
Creative Expression (SOURCE)

Office of Sponsored and Undergraduate Research

4-20-2011

Short-Range Sonar Development

Matthew LaRue

Alex McGuffey

Follow this and additional works at: <https://scholar.valpo.edu/cus>



Part of the [Engineering Commons](#)

Recommended Citation

LaRue, Matthew and McGuffey, Alex, "Short-Range Sonar Development" (2011). *Symposium on Undergraduate Research and Creative Expression (SOURCE)*. 43.

<https://scholar.valpo.edu/cus/43>

This Poster Presentation is brought to you for free and open access by the Office of Sponsored and Undergraduate Research at ValpoScholar. It has been accepted for inclusion in Symposium on Undergraduate Research and Creative Expression (SOURCE) by an authorized administrator of ValpoScholar. For more information, please contact a ValpoScholar staff member at scholar@valpo.edu.

Short-Range Sonar Development

Matthew LaRue, Alex McGuffey

Departmental Affiliation: Electrical and Computer Engineering
College of Engineering

Our project involves the development of a short-range detection sonar system using Matlab signal processing techniques. Currently, the necessary equipment has been researched and purchased, and the preliminary work on output signal creation, transmission, and reception is being conducted.

Information about the Authors:

Both Matt and Alex are junior electrical engineering students. Interest in the creation of a sonar system started with an internship experience with the Air Force in the area of radar system design.

Faculty Sponsor: Dr. Jeff Will

Student Contact: matthew.larue@valpo.edu