

1096-H1-1177 **John A. David*** (davidja@vmi.edu), Virginia Military Institute, 430 Mallory Hall, Lexington, VA 24450. *Applied and Industrial Mathematics Program at the Virginia Military Institute*. Preliminary report.

The Applied and Industrial Mathematics (AIM) program at the Virginia Military Institute is an undergraduate research and consulting program administered by the Applied Mathematics Department. AIM employs cadets during the summer to work on problems for laboratories, businesses, government and not for profits. It has performed work for both local and national organizations. The program is modeled after a similar program at the College of Wooster. It was founded in the summer of 2011 and has since completed 10 projects. It is primarily funded by clients, but supplemental funds have been provided by the institute. This talk will outline the program and discuss specific results from several projects.

- Building software to find optimal delivery routes for hot lunches for elderly clients.
- Creating a computational model to identify manpower and equipment needs to detect pirates.
- Developing databases for energy use and community needs statistics.

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