

1145-F5-1845 **Steven Schlicker***, Department of Mathematics, GVSU, Allendale, MI 49401. *Motivating Students with Applications.*

For many years I have searched for real applications that my students can explore in my classes in an attempt to help motivate them to learn the concepts as well as the applications. The linear algebra applications will be included in an open source linear algebra text that my colleague Feryal Alayont and I have written. Each section of our text begins with a short discussion of an application that uses the material from the section, and concludes with an extended project in which students can explore the application. In this presentation I will share some of the applications that are in the text and the projects in which the students engage. (Received September 24, 2018)