

A WEB-BASED PYTHON PIV ANALYSIS PROGRAM FOR USE IN UNDERGRADUATE LABORATORY EXPERIMENTS.

JACOB SEPHTON
SUPERVISED BY PROF. JULIO SORIA

1. INTRODUCTION AND AIMS

1.1. **Introduction.** what is particle image velocimetry how is it accomplished why is it useful why is the development of this technology useful in this context – undergraduate laboratory what is Dash why Dash? what should the finished product do?

1.2. **Aims.** Specifically, this project aims to:

- develop a useful and user-friendly PIV application
- This will involve: determining the specific requirements of the end user, deciding which features must be present and which features are simply nice-to-have, prioritising feature and product development.
- Determining the hardware and software operating environment
- Determining the physical test equipment the software is to be used with
- Creating