

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

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## 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