About The Project

Thorlabs Scientific Imaging (TSI) microscope image alignment machine learning system.

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Built With

- PYTHON
- TENSORFLOW
- OPENCV
- MATPLOTLIB
- NUMPY

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Getting Started

Prerequisites

- Python 3.8 or greater
- Git

Installation

1. Clone the repo

```
git clone https://ThorlabsSpectralWorks@dev.azure.com/ThorlabsSpectralWorks/tsi-image-recognition/_git/tsi-image-recognition
```

2. Navigate into the repo folder and pull the latest code from the development branch

```
$ git pull origin dev
```

3. Create a new virtual Python environment called `env`

```
$ python -m venv env
```

4. Activate the virtual environment.
    - Windows:

```
$ ./env/Scripts/activate
```

- Mac/Linux:

```
$ source ./env/bin/activate
```

5. Install the required dependencies.

```
$ python -m pip install -r requirements.txt
```

6. Deactivate the virtual Python environment when finished. (Windows and Mac/Linux)

```
$ deactivate
```

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Contact

Tony Bautista - jbautista@thorlabs.com
Heath Smith - hsmith@thorlabs.com

Project Link: https://dev.azure.com/ThorlabsSpectralWorks/_git/tsi-image-recognition

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