Company Description

Pix4D SA provides image processing software solutions for professional unmanned aerial vehicles (UAV). The company offers Pix4UAV, a general cloud computing service and standalone desktop software solution that provides a way to process images. Its solution includes georeferenced orthomosaic and georeferenced digital surface model generation; automatic aerial triangulation, bundle block adjustment, and camera calibration; automatic reconstruction and accuracy report; images processing; ground control points and coordinate reference system support; thermal, infrared, and multispectral; multi-camera support; DSM and cloud of points with dense matching; and rapid processing mode features. The company offers its products for mine and quarry surveys, emergency response, and vegetation monitoring applications. It offers its solution as a cloud service and as a desktop license. The company sells its products to UAV manufacturers for bundling; and directly to farming, mining, construction, and exploration companies that need to create a timeline of 3D maps. It serves the United Nations, mining companies, and local surveying companies all over the world. The company was founded in 2011 and is based in Ecublens, Switzerland.

Tutorial Description

This tutorial will be aimed at geospatial professionals, and will include the following concepts:

- Introduction to Photogrammetry concepts used by Pix4D
- Image Capture, camera types, and platforms used
- Cloud vs desktop processing
- Georeferencing
- Verifying accuracy
- Creating a project
- Live demonstration of interface
- Outputs workflow
- Reviewing the quality report

Instructor Bio:

Angad Singh is a Technical Sales Engineer, and training specialist for Pix4D based in San Francisco, USA. Prior to finishing his academic research and joining Pix4D, he helped Quidich Innovation Labs in India with GIS and photogrametry workflows. Angad's interest in UAS based photogrammetry started when he realized he could get incredibly high resolution data which would enable his research to make micro level insights, as well as change the narrative of how industries operate. Angad has a passion for enabling people to understand the power and limitations of UAS to create great geospatial data. Angad's research background is in Remote Sensing and Precision Agriculture from McGill University in Montreal, Canada.