



## **FACULTY MENTOR**

Hylton, Todd

## **PROJECT TITLE**

A smart camera using predictive machine learning

## **PROJECT DESCRIPTION**

The intern will implement a predictive machine learning model (already in development) on a gimbed, motorized camera that spontaneously saccades in to visual inputs that are poorly predicted. The intern will build the camera system, implement the algorithm, test its performance in common indoor/outdoor environments. The project will be supervised by Michael Hazoglou, a postdoctoral researcher developing the machine learning techniques. The intern will be responsible for building the camera system and interfacing to the computer that runs the algorithms (motor control and camera image interface).

## **INTERNS NEEDED**

1 MS or BS Student

## **PREREQUISITES**

Elementary motor control, knowledge of cameras, familiarity with machine learning, python coding skills.