

## Proposal for Graduation Project 2018

### **ToothScan: Dental Diagnosis App**

One major problem that let to lose of tooth is the late diagnosis. Tooth problems like cavity are hardly being observed until it reaches a sever stage. ToothScan is a smart mobile app that can be used to diagnosis dental problem without going to dental clinic. Just take a snapshot of your tooth using a specific setup position and get a full dental diagnosis report. System can handle the patient history and can exchange information with your doctor with a simple click.

#### Input/Output:

- Input: Images obtained using a mobile phone camera.
- Output: Diagnosis of potential dental problems.

#### Knowledge required:

- Image Processing
- Programing
- Artificial intelligence
- Mobile App programming

#### Beneficial entities:

- Public
- Dental clinics
- Hospitals

#### Hardware/Software requirements:

- A mobile phone.
- Diagnosis information from dental specialist.

#### Expected outcome:

- New knowledge (some how)
- Research paper (yes)
- Commercial product (yes)