

# NEHAL KANETKAR

## Languages

Swift  
Objective C  
C++  
JavaScript  
PHP  
Java (Android)  
VBA

## Tools

Photoshop  
Xcode  
GIT  
SVN

## Libraries

CoreLocation (iOS)  
CoreGraphics (iOS)  
Apple Maps  
Google Maps API's  
THREE.js  
WebGL

I am currently in my 2B term at the University of Waterloo studying Systems Design Engineering. I'm a pilot, developer, aspiring systems design engineer and a life long learner. In my free time, I like to take photographs, fly somewhere for lunch or just go for a swim. Recently, I have been exploring astronomy and astrophotography, sparking a few personal projects. Whatever I am doing, I always like taking on new challenges and discovering new things!



519 760 3785



nkanetka@uwaterloo.ca



nkanetka.github.io



github.com/nkanetka

## EXPERIENCE

### R&D SOFTWARE DEVELOPER THE WEATHER NETWORK

Developed a working a vector radar implementation on web and mobile platforms. Exposed to: Apple Watch, Android TV, WebGL and THREE.js libraries.

MAY 2015 - SEP 2015

### TECHNICAL ANALYST CIBC EQUITY MARKETS

Developed macros automating daily reporting, saving 20 minutes per day. Implemented cost analysis of unused client connections resulting in \$2,000 of savings annually.

SEP 2014 - DEC 2014

### RESEARCH ASSISTANT UNIVERSITY OF WATERLOO

Conducted research with MASc student Samuel Lien and Dr. Jonathan Histon on Data Synchrony in aviation. Helped develop and test pilot and ATC interfaces.

AUG 2014 - APR 2015

## PROJECTS

### STAR TRACKING MOUNT

Designed and implemented a tracking mount to reduce star trails when taking exposures of stars. Used an Arduino and stepper motor to rotate mount with the earth.

HARDWARE DESIGN

### FLIGHT TIME-IOS

Developed an application to log airtime and flight times using CoreLocation in iOS. Created and tested algorithm to log airtime accurately and efficiently.

APP DEVELOPMENT

### FLIGHT PLANNER

Generated a flight planning program to output highly realistic flight plans for flight simulation. Used aircraft manuals to get fuel burns and specifications.

APP DEVELOPMENT

### PILOT

Canadian private pilot with night rating. Approximately 120 hours of flying time.

PRIVATE PILOT

## EDUCATION

### BASC : SYSTEMS DESIGN ENGINEERING UNIVERSITY OF WATERLOO

Relevant Courses: Data structures and algorithms, Human factors in design, Digital circuits, Analog circuits

SEP 2013 - APR 2018