

TANJOT PANESAR

Systems Design Engineering | University of Waterloo

✉ tspanesar@uwaterloo.ca

🌐 tanjotp.github.io

in in/tanjotpanesar

🔗 [TanjotP](#)

skills

Experienced with Mobile Development (Android), C++, Arduino, JavaScript, SQL, HTML5, CSS

projects

Findr

Mobile app + hardware
@DeltaHacks

Created a check-in and search system for crowd control using **android** studio, firebase and arduino; Second Place Prize

2018

BluMug

Smart Mug + Caffeine
Tracker Mobile App

Developed an interactive mobile dashboard, connected via Bluetooth to mug. Developed algorithms to calculate caffeine levels in human body in **C**.

2017

IoT Camera Gimbal

Stabilizer + web page
controller via internet

Limits vibrations; stabilizes position using gyroscope & motors. Collaborated with colleague to control stabilizer wifi; connected via web-page created in JavaScript, HTML and CSS;

2017

Fit Fish Simulator

Machine learning
simulation

2D visual simulator of genetic learning algorithm created using **JavaScript** and HTML. Generates species of fish to locate ones that can survive the longest under scalable circumstances;

2017

SelectedVote

Lack of communication
isolated through an app

Established wireframe of an android app used to answer polls and vote. Created in JavaScript, HTML, and CSS (UI/UX)

2016

experiences

Software Developer

Ubilab Health Tech
Waterloo, ON
Jan. 2018 - May.2018

Developed android app and interfaced with hardware, designed to track urination, create data-set, and diagnose risks of prostate cancer
Usability testing for device and app with 20 clients

Director / Founder

S.T.E.M. Team
Milton, ON
Sept.2015—Nov.2017

Demonstrated leadership by organizing two conferences, four workshops and two spring camps projected towards 150+ youth; gained a revenue of \$4600; Taught fundamental programming