For $121 Million...

could we create the control software for Skytrain?
Instructor: Dr. Fraser - call me Dr. Brian

- I like questions, and love feedback!
About Me

• Home Town: Surrey!
• Degrees: BSc & PhD from SFU (AI)
• Favourite Video Game: StarCraft II & WoW
• Family: Married with 2 girls (4y & 6y)
• I miss the most during isolation: Conversations with friends, colleagues, and students!

Daughter’s biggest worry about my online teaching.
Guide to Slides

• Slide Colour Guide (often...):
  - Green: headings.
  - Yellow: Highlighted text.
    • This course has quizzes and one final.
  - Blue: Term being defined.
    • Hour: 60 minutes.
  - Sweep-in Text: Blanked out text to keep (almost) everyone awake and hold attention.

• Joke:
  - My software never has bugs,..
Course Information
Course Topics

• Basic Course Goal
  – Cover the basics of developing software in a professional environment.
  – Learn to be part of a development team.

• 3 Components of Course
Online Course Structure

- Lectures
  - MWF streaming live; recorded for later viewing.
  - Incomplete notes posted online ahead of time.

- Quizzes – every ~2 weeks, in class, announced.
  - Practice quiz coming soon

- Assignments – in Android Studio (your computer)
  - Run in emulator or on phone

- Project – Assigned groups, supported interactions

- Office Hours – Discord (text, or voice/video)
  - Piazza for most questions!

- Exams – Final exam
Website

- https://opencoursehub.cs.sfu.ca/bfraser/grav-cms/cmpt276/home
  - Notes
  - Assignments - about 2 weeks to complete
  - Project - assigned groups
  - Videos - some suggested for each assignment
  - Course Info - getting help; weighting.

- Course grades likely scaled a little as assignment & project grades usually very high.

- Suggested Texts
  - Android Programming: The Big Nerd Ranch Guide 3rd Ed in Java
    (4th is Kotlin; 2nd/1st ed likely OK)
You already known

1) How to program in an object oriented language
   - Know Java? Great!
   - Know C++? You'll have to pick-up basic java quickly; we will have some resources

2) How to develop simple object oriented applications
   - C++

3) How to use video chat systems!

If you feel you don’t know this, come talk to me today.

Just kidding!
Keys to Success

- **Lecture**
  - Slides posted online, BUT key points blanked out.
  - Take notes for the blanks and the extra things I say.

- **Stay up to date**
  - If falling behind, get help!
  - Start early, ask questions on Piazza!
  - **Stay engaged!**

- **Do assignments to be proficient with material.**
  - Be a good group member.
  - Individual contribution to project is evaluated.

- **Ask Questions!**