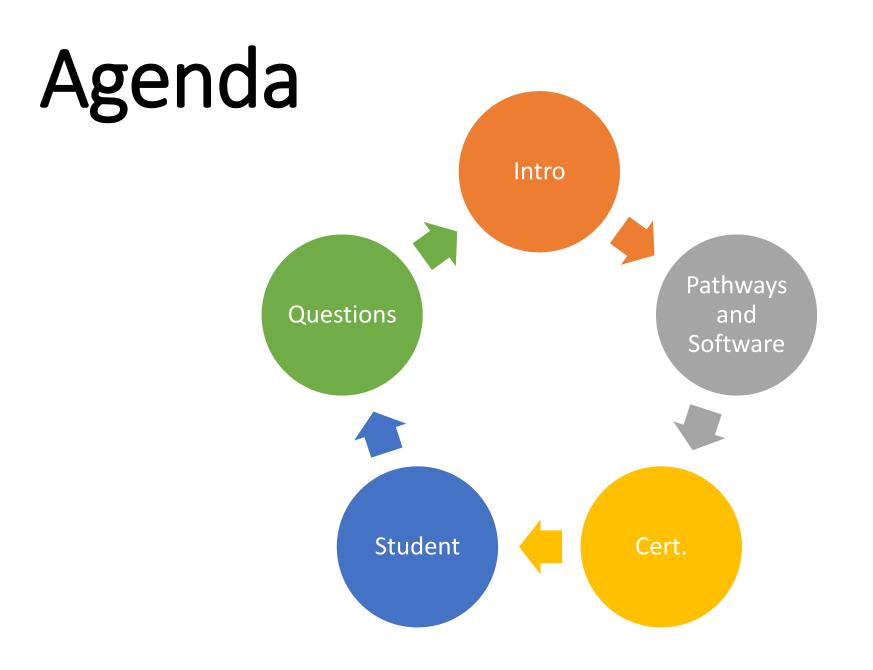
Software & App Design



8th Grade Virtual Open House February 9, 2021





Simple Burke Bio mburke@lhusd.org

BA in Marketing from **St. Bonaventure University** Masters in Edu Tech at NAU 21 Years Teaching Experience Year 3 – Coding Instructor AZ Tech Teacher of the Year Microsoft Innovative Teacher







Jobs and Graduates in Arizona

There are currently **12,934** open computing jobs with an average salary of



There were 1,014 computer science bachelor's degrees

earned in 2018.

Source: Arizona CS Policy Fact Sheet - Code.org



Software & App Design

Classes	Sections
Intro	2
Intermediate	1
Advanced	2
Advanced B	

* Year long classes

Languages:

GAL

- JavaScript
- GML (GamerMaker)
- C# (Visual Studio /Windows Forms)
- Python
- Java





Software Used:

- CodeHS
- GameMaker
- FlowLab.io
- CodeCombat
- Google Classroom





flowTab

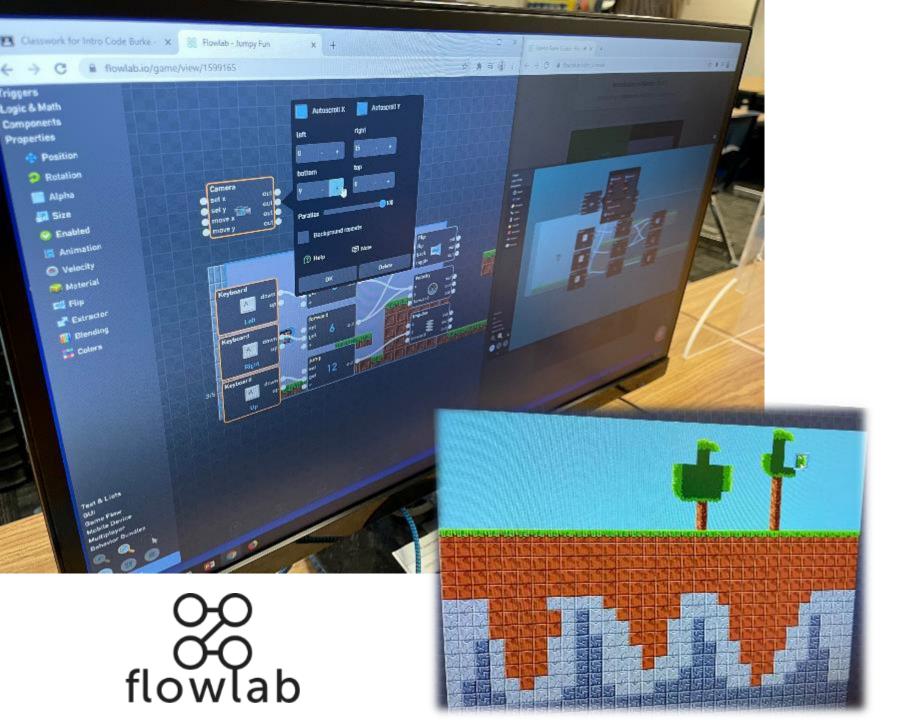
Software Used:

- Code.org
- Kahoot
- Quizlet
- Visual Studio
 - Windows Forms
- Unity*



Sunity

```
1
    var LIGHT RADIUS = 35;
 2 var STOPLIGHT WIDTH = 120;
 3 var STOPLIGHT HEIGHT = 350;
 4 var BUFFER = 100;
   var GRAY COLOR = "#737071";
 5
   var centerX = getWidth() / 2;
 6
 7 var centerY = getHeight() / 2;
                                                                   CodeHS
 8
   var DIST BETWEEN LIGHTS = 100;
 9
10 - function start(){
   var rect = new Rectangle(STOPLIGHT WIDTH, STOPLIGHT HEIGHT);
11
12 rect.setPosition(centerX - STOPLIGHT WIDTH / 2, centerY - STOPLIGHT HEIGHT / 2);
13 rect.setColor(GRAY COLOR);
14 add(rect);
15 drawCircle(Color.red, centerY - DIST BETWEEN LIGHTS);
16 drawCircle(Color.yellow, centerY);
    drawCircle(Color.green, centerY + DIST BETWEEN LIGHTS);
17
18
    }
19
20 - function drawCircle(color, y){
   var circle = new Circle(LIGHT RADIUS);
21
22 circle.setPosition(centerX, y);
23 circle.setColor(color);
24 add(circle);
25
```



Required Testing



Technology Associate

MTA Test Certiport Exams

9 out of 10 Advanced students passed MTA Software (Spring 2020) 1 out of 2 Advanced Year 4 students passed MTA Security (Spring 2020)

Course (98-361) - Software



-) Understanding databases (15-20%)

Course (98-367) - <u>Security</u>

+ Understand security layers (25–30%)

+ Understand operating system security (35-40%)

Understand network security (20–25%)

Understand security software (15–20%)



2-year Technical Skills Assessment (TSA)

State Course Completion Exam



A little humor . . .



Student Voices

Nathan

Cameron

