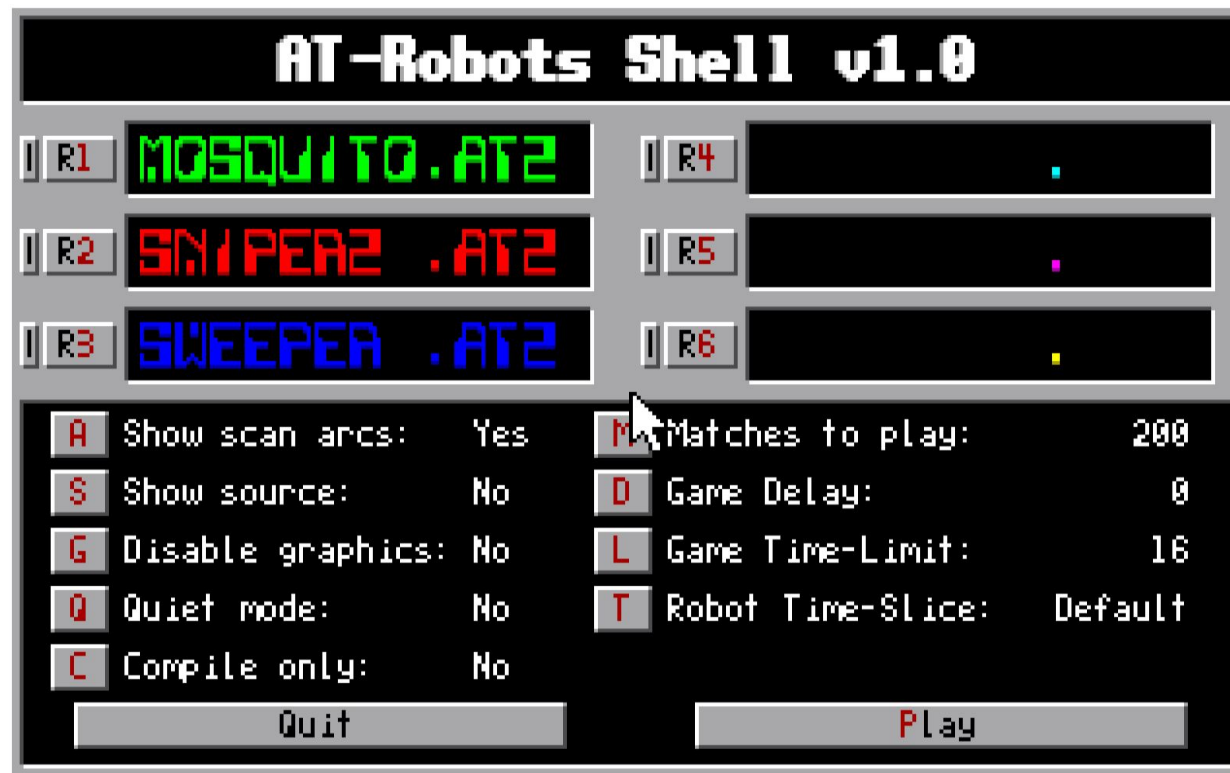# Cycle 2

Team Cerebral

Conor Ahern, Connor Schultz, Matt Frosini, Nick Spina

Introduction

- Our team's goal is to port the classic competitive robot game, ATRobots, to modern operating systems with a more advanced and evolved interface.

Plans

Original:

- Have graphical matches working in ATRobots
- Test robot files and fix robot instructions that aren't working

Now:

- We have working graphical matches
- We have tested 16 out of 23 robots
- We have a working ATROBS GUI

Testing Robots

CIRCLES.AT2 - 100%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~

INDIRECT.AT2 - 80%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~

RANDMAN3.AT2 - 100%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~

RAMMER.AT2 - 80%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~

SDUCK.AT2 - 100%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~

SNIPER.AT2 - 50%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~

SNIPER2.AT2 - 50%

✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
✓ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~
☐ ~~~~~~~~~~~~~~~

CIRCLES.AT2 - 100%

✓ Hits boundary without going off the screen
✓ Moves in a circular pattern
✓ Scan lines being drawn
✓ Shoots when a robot is within scan lines

RAMMER.AT2 - 80%

✓ Starts in a random position
✓ Starts out with turret in either front or back
✓ Moves in a counterclockwise circle until it finds a robot
✓ Locks onto robot once it finds one
❏ Moves in 100% of the matches

RANDMAN3.AT2 - 100%

✓ Starts in a random position

✓ Stops at boundary

✓ Scanner moves in clockwise rotation

✓ Moves in random direction then turns after
    a couple of seconds
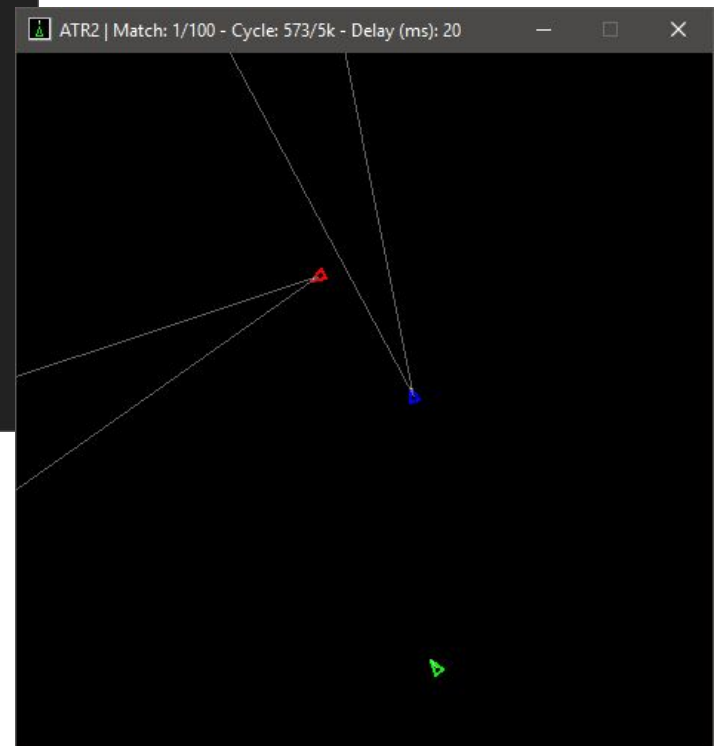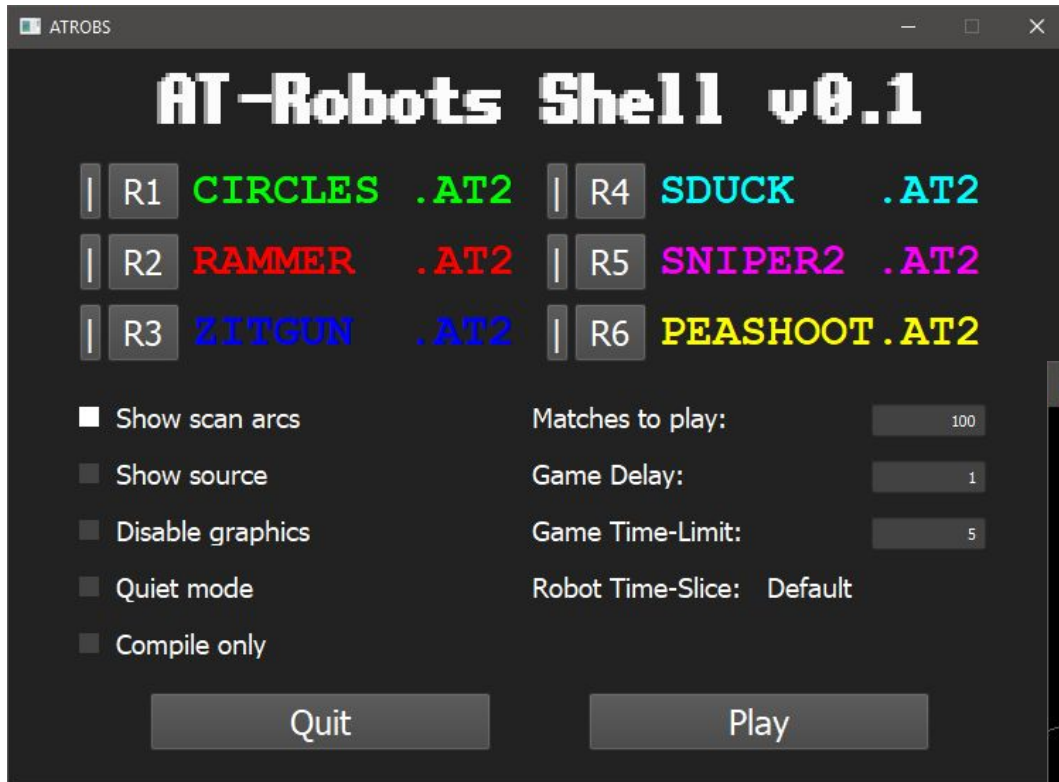
ATR2Func - Tests & Process

```
C:\Users\conor\OneDrive\Documents\CS370\CS370-ATR2-TEST\cmake-build-debug\ucase.exe
test.                       --> TEST.
 TEsT.                      -->  TEST.
TEST                        --> TEST
!@#$%^&*()                  --> !@#$%^&*()
test test.                  --> TEST TEST.
TEST TEST.                  --> TEST TEST.
abcdefghijklmnopqrstuvwxyz --> ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ --> ABCDEFGHIJKLMNOPQRSTUVWXYZ
,./<>?:;'[]{}|-=_+          --> ,./<>?:;'[]{}|-=_+
hello world                 --> HELLO WORLD

10/10 tests successful!

Process finished with exit code 0
```

ATR2 - Demo

Future Plans

- Robot explosions
- Fix remaining robot instructions
- Mines
- Info "sidebar" for graphics
- Sound