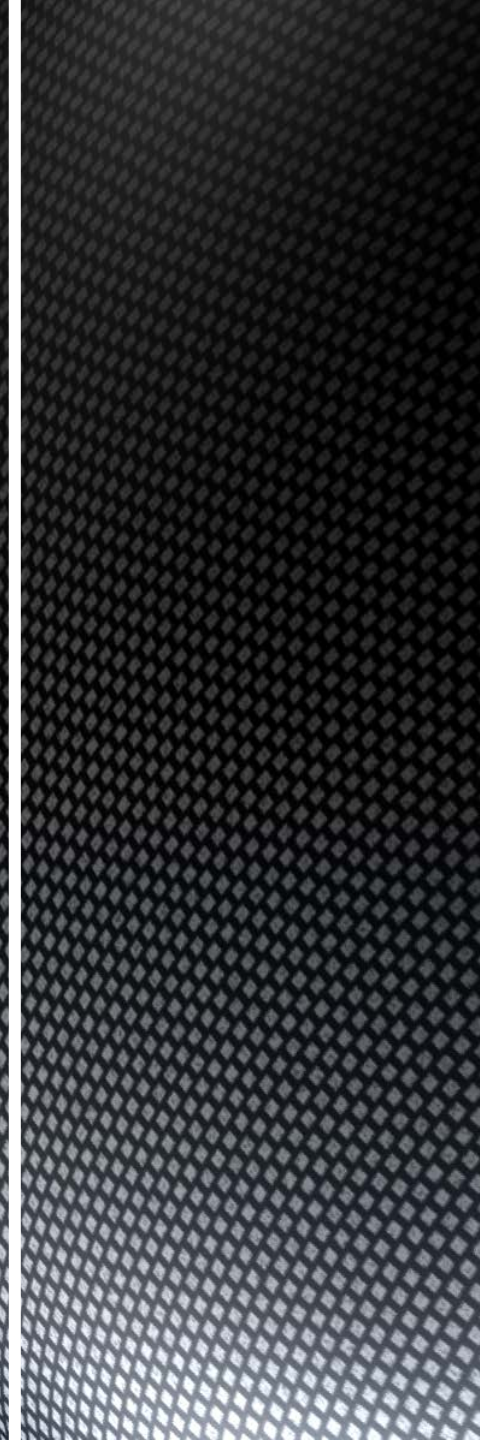# HVAC

Jan Fontanosa, Vyacheslav Perepelytsya & Maasha Maheson

- Smart HVAC monitoring system
- Broadcom Development Platform-based I.o.T project (Raspberry Pi 3)
- Sensors: Sound, Temperature, Moisture, Touch
- LCD Touchscreen

Proposal

- $200 budgeted
- Includes RPI starter kit, LCD and sensors
- Actual cost was higher because of missing LCD cable

Budget

- Semester 5: getting individual sensors to work with RPI (programming and hardware)
- Semester 6: integration of all sensors to make HVAC system
- Troubleshooting issues with integration

Project Schedule

- Java and XML for Android application
- SQL, JSON, and PHP for database
- C (originally Python) for sensor code
- Unix/Linux scripting for RPI
- PCB design and fabrication

Course Knowledge

Hardware Demonstration

Android Application

SQL Database

- Smart HVAC monitoring system can be built!
- Python
- Amazon DynamoDB

Conclusion & Recommendations

Thank you!