Garde*Net*
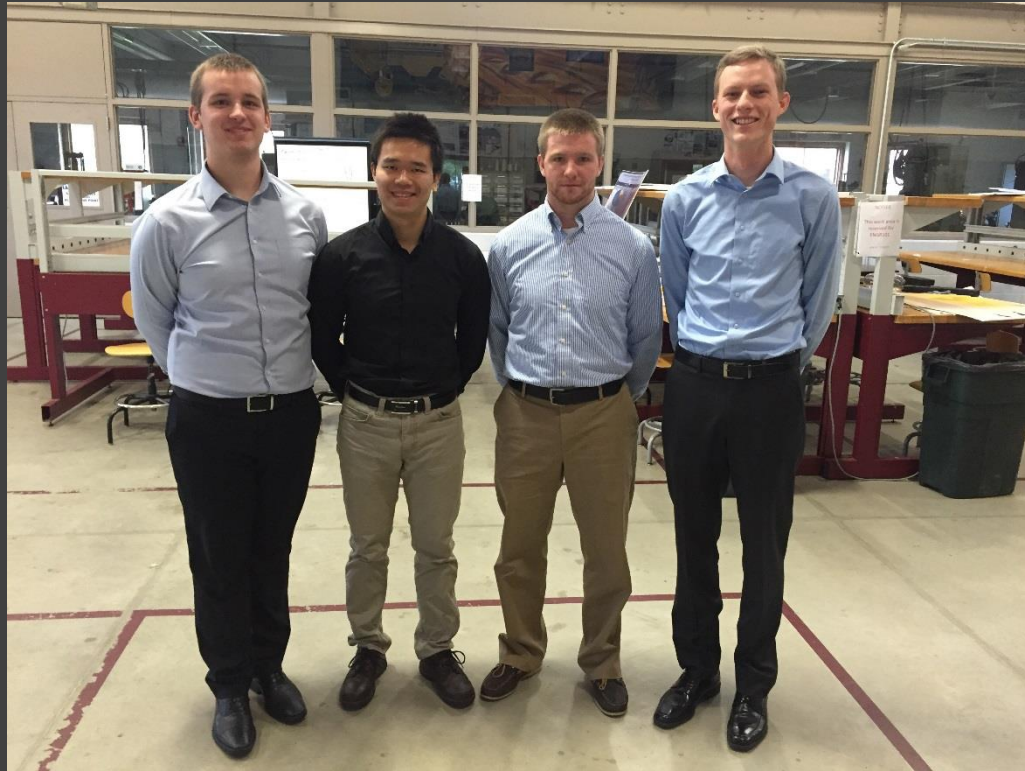
TEAM 16

JOHN CONNELL, ANTHONY JIN, CHARLES KINGSTON, AND KEVIN KREDIT

The Team

John Connell | Anthony Jin | Charles Kingston | Kevin Kredit

The Problem

❑ Watering is part of the labor intensive gardening venture!

❑ Community gardens tend to have difficulties to gather enough volunteers to maintain the garden consistently
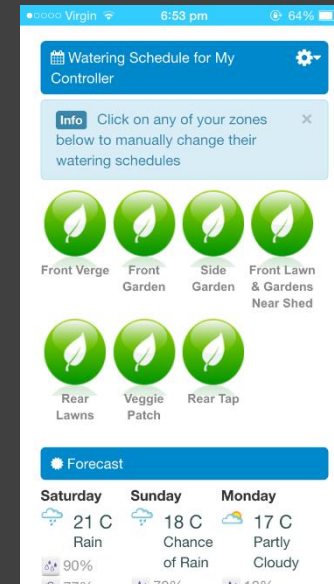
❑ Therefore, watering is a prime candidate for automation

An afternoon of gardening can be tiring...

ICANHASCHEEZBURGER.COM

https://www.pinterest.com/pin/147211481542711870/

Existing Industrial Solutions

❑ Although automated, high-tech watering systems are already available in the market, they are expensive

SkyDrop Controller

Hydrawise user interface on mobile device

Our Solution

- ❑ Existing solutions use Wi-Fi

- ❑ Designing the system specifically for Caledonia Community Garden

- ❑ Market: Small home gardens to small industrial gardens

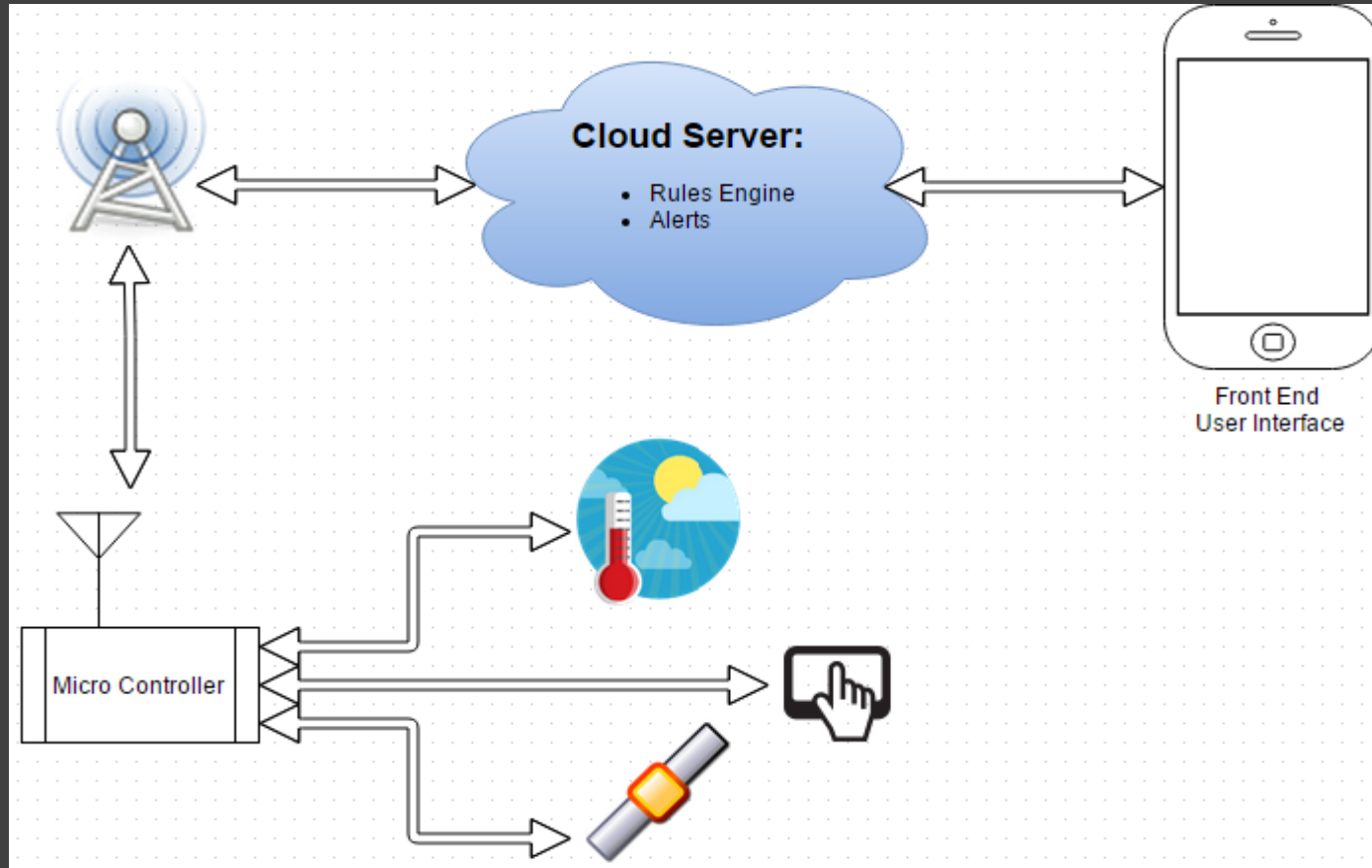*http://southfloridareporter.com/some-countries-banning-wifi-in-schools-should-we-22524/*

http://felixphotography.co/backyard-garden-pictures/

http://www.pamsperennials.com/images/pic4.jpg

Functional Block Diagram

Key Players

❑ David Benjamin – Main contact at Caledonia Community Garden

❑ Kurt Dykema – Technology Director at Twisthink

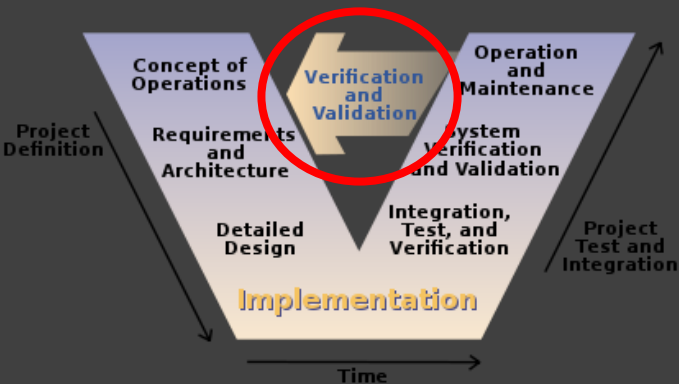❑ Scott Kerstein – Senior Field Applications Engineer at Arrow Electronics

http://caledoniacommunitygarden.org

http://www.twisthink.com

https://www.arrow.com

| The Team | Project Description | Project Impacts | Status |

Design Norms

☐Integrity   ☐Trust   ☐Humility   ☐Stewardship

https://upload.wikimedia.org/wikipedia/commons/thumb/e/e8/Systems_Engineering_Process_II.svg/420px-Systems_Engineering_Process_II.svg.png

http://www.profitguide.com/wp-content/uploads/2014/03/outside_handshake_deal.jpg

http://audiodimensions.net/wp-content/uploads/2011/10/Control-4-lady-with-touch-screen.jpg

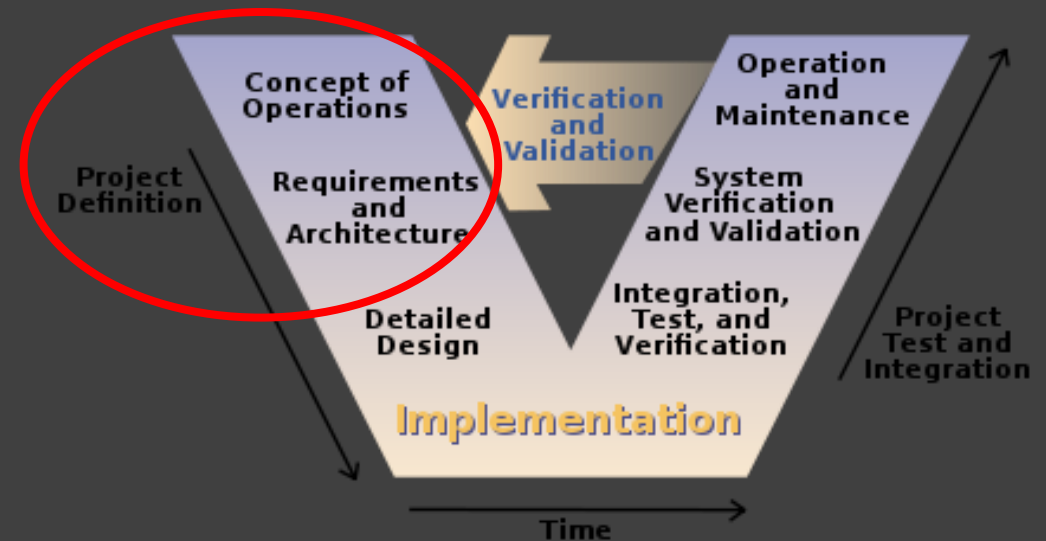http://g4.img-dpreview.com/384DA42DD7B54A149394C67164F2AD16.jpg

The Team | Project Description | Project Impacts | Status

Status

☐ Meeting with our clients and mentors

☐ Developing requirements

☐ Researching parts and tools

https://upload.wikimedia.org/wikipedia/commons/thumb/e/e8/Systems_Engineering_Process_II.svg/420px-Systems_Engineering_Process_II.svg.png

Questions?

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