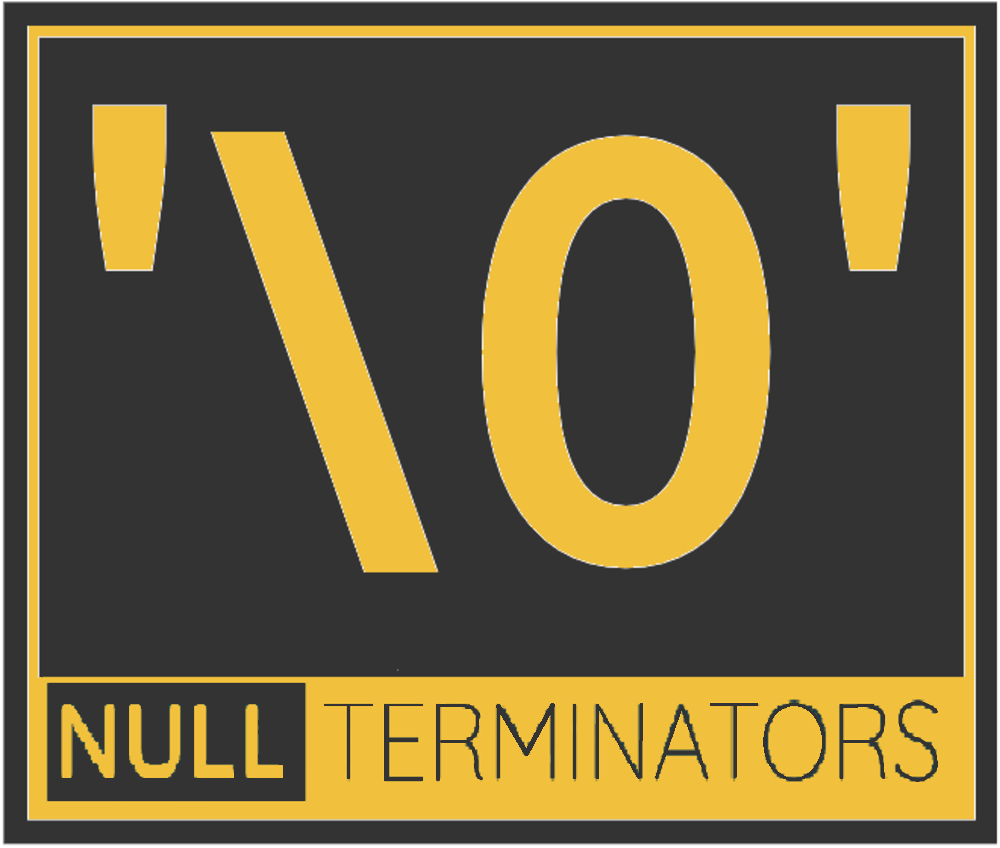
ATICS-

Automated Toolbox Inventory Control System

Project Summary

Null Terminators





Senior Project Requirement Specifications

CptS 421/423

WSU Tri-Cities

1710 Crimson Way, Richland, WA 99354

**Title:**

Automated Toolbox Inventory Control System

**Project Team:**

Null Terminators

**Participants:**

Reem Osman (Project Manager)

Caitlyn Powers

Steven Pixler

Navin Sabandith

Caleb Thomas

**Client:**

Troy Stokes, HiLine Engineering

**Client Technical Contact:**

Andrew Tolman, HiLine Engineering

**Supervisor:**

Dr. Neil Corrigan, WSUTC

Contribution:

* Reem Osman
  + Reviewed initial ideas, and made plans for completion of all documents
  + Made initial approach
  + Scheduled meetings with all participants of the project
  + Built the Gantt Chart
  + Came up with ideas to mimic a toolbox
  + Prepared testing space
  + Built an agenda for all weekly meetings
  + Checked In with members when needed
* Caleb Thomas
  + Takes meeting notes
  + Designated proofreader
  + Wrote initial purpose statement
  + Created sample Database schema
  + Sketched out Docker-based backend architecture
  + Built the Docker containers
  + Built the Apache Web server
  + Configured Camera settings
  + Wrote script to delete old camera footage
  + Wrote User Guide section on camera setup
* Navin Sabandith
  + Created logo
  + Wrote Initial Project Scope document
  + Says “Hello” every time someone join a meeting
  + Incharge of Database related contributions
  + Developed template API calls in Project Requirements
  + Created Project Flowchart
  + Built the Database
  + Built the API calls
* Caitlyn Powers
  + Made initial scope statement
  + Incharge of Camera and template matching related contributions
    - Camera research document and minimum requirements
    - Created program overview diagram
    - Created requirements for detection program
    - Created configuration file appendix and toolbox related appendixes
  + Testing OpenCV
  + Wrote automatedtoolbox, additional script, example script and configuration file parts in design document
  + Built the main program
  + Ran the tests for the main program
  + Wrote testing document
  + Wrote Additional script and install parts of user guide
* Steven Pixler
  + Developed classifier using pytorch and gathered data
  + In charge of Object Detection related contributions
  + Assisted with preparing testing space
  + Assisted in overall testing
  + Update and configure the classifier as needed for additional tools

Schedule Followed:

* We meet as a group:
  + Every Saturday at 3pm at Caleb Thoma’s home.
* We meet with professor Neil Corrigan:
  + Every Friday 11am to 12 pm at WSU TC
* We meet with HiLine Engineering:
  + Every Friday 2 pm to pm at HiLine Engineering

We communicate through Discord very often, so whenever we have any questions or concerns we tend to join a voice call for a quick discussion.