



Engineering
& Computing

Fall 2025 Senior Design Project

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Problem

Businesses struggle to keep track of physical assets, causing lost time, misplaced items, and inefficient tracking systems.

Businesses need:

- A centralized way to locate assets
- A system to reduce losses and human error
- A dashboard that updates in real time

Control Point

What is Control Point?

- Asset-management solution designed for small to medium-sized businesses
- All in one solution for tracking assets, employees, and more
- Built with simplicity as a core tenant

Key Features

- Lightweight
- User-friendly web interface
- CSV uploading and exporting
- Adaptable structure
- Authorization and user roles
- Simple deployment

The Toolkit

- Python
- HTML
- Flask
- MariaDB
- SQLAlchemy
- Chart.js
- Bootstrap
- Werkzeug
- GitHub
- Gunicorn

||| Demonstration



Constraints

- No ability to create custom roles
- No integration with common AD solutions
- Very few database safety precautions
- Lack of quality-of-life features

Future Plans

- Quality-of-life changes (i.e. selecting multiple assets at once)
- Expanded administrative options
- SNMP integration
- Enterprise grade DB options
- RFID/Barcode scanning implementation