

SMART HOME

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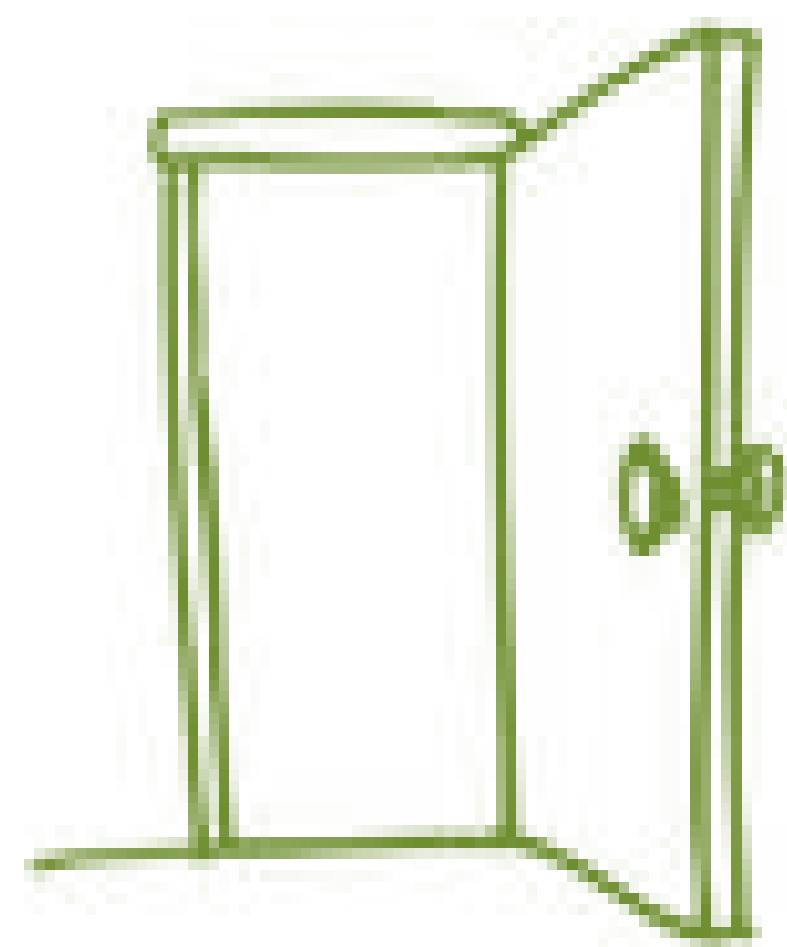
Dario Bosnjak

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Heating

- Monitors temperature.
- Equalizes room to room temperatures.
- Stepper motors control dampers.
- Variable PWM fans to move air as needed.



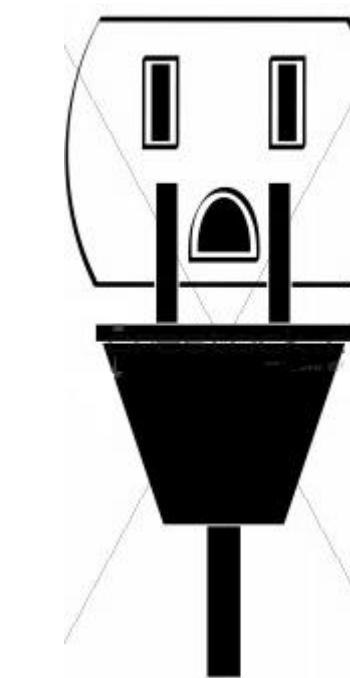
Occupancy

- Room occupancy detector tracks persons in room.
- Provides occupancy data.
- Controls room lighting.
- Visual infrared motion sensors and laser trip wire for accuracy.



WEB WIFI SERVER

- Smart Home is controlled by PC or Smartphone via the web.
- Persistent server communicates between each home system and provides webpage.
- 802.11 wireless communication between outlet box and server for portability.



OUTLET

- Switch power on/off for each socket.
- Each socket provides real time power statistics.
- Relay controlled sockets.
- Hall effect senses power.



SPRINKLER

- Automated sprinkler system.
- Daylight and moisture monitoring provide sprinkler cycles.
- Soil conductivity sensors measure moisture.
- Photo resistors measure light.