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# SecurePlace



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## Class Projects

# Projects with Dr. Gracanin

- Using a mobile device in a shared space where other users as well as numerous sensors are present presents many challenges from the security point of view. **(WE NEED A SET OF REPRESENTATIVE/ILLUSTRATIVE SCENARIOS)** A notion of place and reciprocity play a key role here. **(WHAT IS PLACE, HOW IS RECIPROCITY MANIFESTED IN A SOCIAL CONTEXT OF MOBILE/UBIQUITOUS COMPUTING)**
  - We would like to explore what is the “conceptual” API that describes functionality/services that are needed to support usable security. We can use Unified Process methodology (use cases -> requirements -> domain model -> design model -> implementation).
  - We will leverage Protune and other available software tools/components to provide a proof of the concept system that will eventually allow us to test our hypothesis. This will be deployed as part of the solar house.

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# Projects with Dr. Kafura

- Design and evaluation of a prototype user interface
  - Employing the concepts of “place” and “reciprocity”
  - For managing policies regulating the disclosure of personal information
  - Variety of scenarios/settings
    - Medical informatics
    - Solar house
  - Involves integration of spatial user interfaces (GoogleEarth?, Second Life?), automatic trust negotiation (Protune), semantic information