Social Caring Prototype Design

Prof Tim Woo, Department of Electronic & Computer Engineering
Faculty-in-charge of the HKUST Robotics Team
Innovative Project Design Competitions

• Encourage a group of 3-4 students participating in design competitions:

Make contributions to the society
- Social benefits that layman can relay to, more humanistic aspect
- financial aspect
- economical aspects
Vision: **E-inclusion**

- **Mission:**
  - Apply Engineering knowledge creativity and make contributions to society
  - **Benefits to Needy**
    - Improve / Enhance training / rehabilitation tools
  - **Benefits to NGOs**
    - Provide some insights of digital world to NGOs
  - **Benefits to students**
    - Holistic Development in both technical and soft skills
Vision: **E-inclusion**

**Structure:**

- My team
- **Social Caring Prototypes for Needy**
- **Communications (for tailor-made design)**
- **NGOs**
- Needy

**Development and Demonstration:**
- Develop
- Demonstration to Needy and get feedbacks

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Team work and Achievement for Social Caring Prototypes

- More than 15 awards in local and international competitions

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Some highlights: Social Caring Prototypes

- **GPS device with elderly tracking system**

  Caregivers / social workers

Mobile phone + GPS

Year 2007-08

while the GPS was not embedded in mobile phone yet.
Some highlights: Social Caring Prototypes

- *Embedded Cognitive Therapy in Digital Photo Frame*
Some highlights: Social Caring Prototypes

- **Electronic rehabilitation tools**
  - *Fishing Game, E-cube, automatic TV volume controller*
Some highlights: Social Caring Prototypes

- **Braille Embosser**

![Diagram showing the process of converting a Word file into Braille using a Braille embosser.]

File Import → Print → Braille embosser

Word File → PC1 → Plain Text → PC2 → Braille

Year 2009-10

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Social Repercussions
Innovative Project Design Competitions

• A summary of students’ comments:
  – Another way of learning.
  – Learn more hardware skill
  – Learn how to manage a project
  – Interested in joining other competitions in the future

• Anything else?
  – Learn a lot from other teams (including technologies and presentation skills)
  – Gain recognition from their peers regardless of whether they get any prize.
  – Increase sense of belonging to the department and university.
  – Think more about what an engineer's responsibility to the society is, and what they can really do to make the world better.
Q & A
Thank You