Research Methods

CSCI 4108
Fall 2017

Lesson 1: Introduction
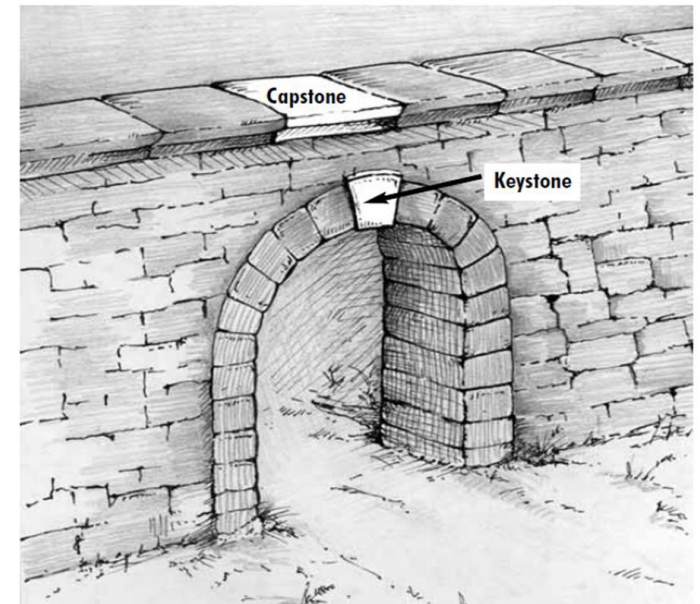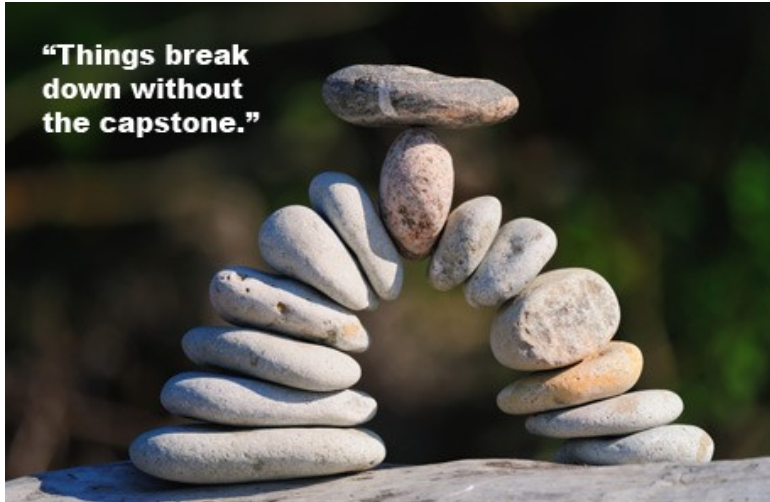
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Introduction

- The graduation project is a **capstone** of the undergraduate curriculum

- Graduation project offers an opportunity to undergraduate students to **apply knowledge comprehensively** in solving a reasonably complex and realistic problem

- Through the graduation projects, the college wishes to train its students towards s**uccessful professional careers**

The capstone

"Things break down without the capstone."

Capstone

Keystone

Importance of Final Year Project

- Opportunity to demonstrate knowledge & skills you have acquired
    - Project Management
    - Analytical Skills – taking a complex problem and devising a practical solution
    - Communication Skills – preparation of web sites, reports and a presentation
- **The successful completion of graduation project is a sing of the students' readiness to pursue a professional career.**
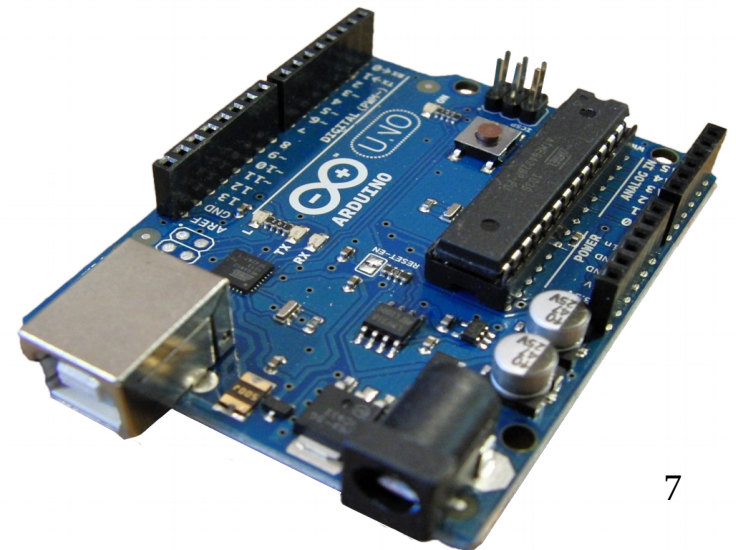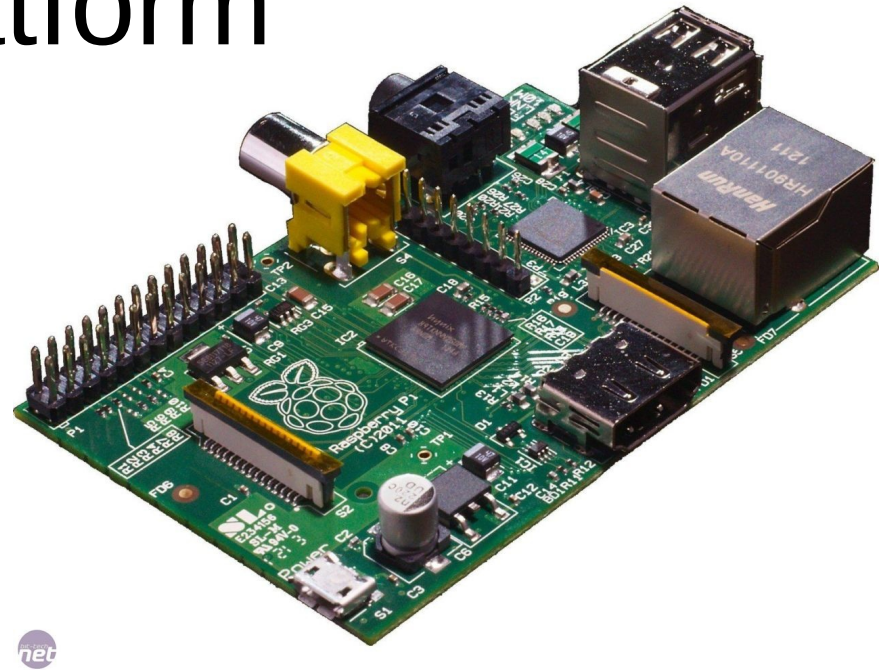
How to find a project

- Students (strongly encouraged)
  - Students are advised to discuss their own project idea with the faculty members in the college for potential supervision

- Faculty members
  - Based on their expertise, faculty members would propose a number of projects they are willing to supervise; Students may bid to join such projects

- External partners
  - Students may choose to work with our industry partners on their sponsored projects

Project types

- Generic applications

- Customized application

Target platform

- Desktop
- Mobile
- Web
- Raspberry Pi / Arduino

Project ideas

- Examples ……

Choosing a supervisor

- Choosing an appropriate supervisor is a very important decision in your graduation project.

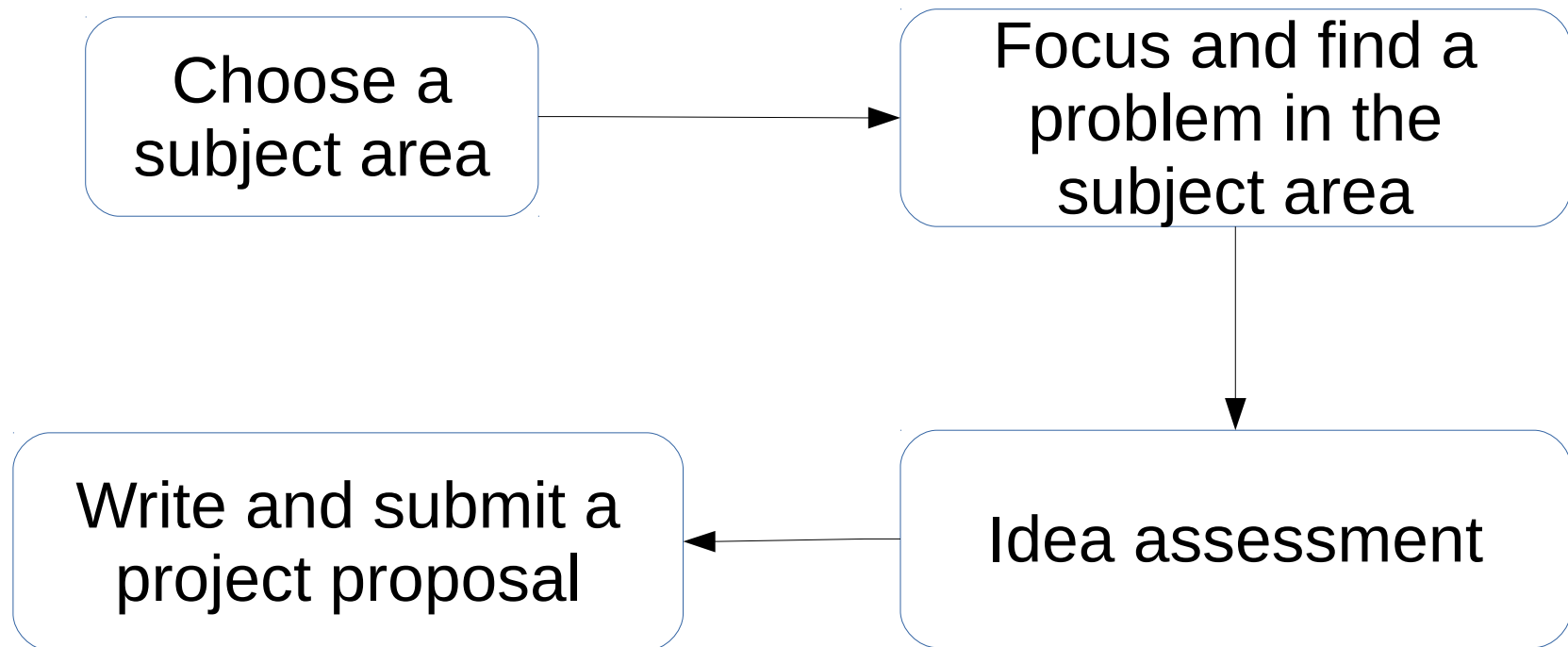- You should have a **weekly meeting** with your supervisor.

Duties of a Supervisor

- Asses the project's idea
- Help you select a project idea.
- Assess your progress through the project
- Determine your suitability to continue
- Guide your work.
- Guide you in the preparation of your proposal and report.
- Choose your examination committee.

Using your supervisor effectively

- Prepare for your meetings.

- What progress you have made since the last meeting

- What problems have you encountered?

- What do you intend to do next – is this suitable? Has your supervisor any other suggestions?

Steps for developing a project proposal

Choose a subject area → Focus and find a problem in the subject area

Write and submit a project proposal ← Idea assessment

Focus and find a problem in the subject area → Idea assessment

End of slides