

Teaching Portfolio

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Teaching Experience

2019	RD3-SV - Machine Vision; Teacher
2019	RD3-PRO - Signals in robotics; Project supervisor
2016-2019	RM-ROVI2 - Lectures on uncertainty propagation in 3D reconstruction; Guest lecturer
2015-2017	RM-ROVI1/ROVI2 - Computer Vision exercise sessions; Teaching assistant
2013	Development of educational physics applications; Student programmer

Formal Pedagogical Education

2015 Ph.D. course: Introduction to University Pedagogy

Fundamental Pedagogical View

I believe that learning is an active process which relies on both the acquisition of knowledge and reflection over this knowledge. As people have different preferred ways to acquire knowledge, it is the teacher's job to guide the student's own active acquisition of knowledge. This is done by identifying difficult topics and decompose these into simpler concepts which are easier to grasp. The teacher should then guide the student to connect these concepts, in a way which facilitates the understanding of the difficult topic. In this way, the teacher's primary job is to be a catalyst for the active learning of the student. While it is the teacher's responsibility to select and partition the knowledge into sizeable concepts, it is the responsibility of the students to put in the work required to understand the presented concepts.

The logical consequence of this pedagogical view is that a student can understand any topic, given a fine enough partition to the topic into smaller concepts and enough time for the student to learn the individual concepts. This means that if the student do not understand a topic, it is because he or she do not have the required concepts in place. It is then a matter of identifying what part of the puzzle is missing and guide the student toward a place where this knowledge can be gained. The actual acquisition of this knowledge is the responsibility of the student.

It is, however, not enough to simply convey difficult subjects to the students. A teacher should also facilitate creative thinking and problem solving such that that the students are equipped to solve the challenging real world problems which are present in a global world.