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Rev. 12/06/2014

Specifications of Bachelor project for students at Electronic Engineering, Information and Communication Technology, Power Engineering and Health Care Engineering.

Date		**Project no.** (will be filled out by IHA)	
Project title:	Autonomous Quadcoptor		
The project applies to at least two students with a specialisation in (please indicate the number of students that will be ideal for the project. You can write your comments here)**:**			
Electronic Engineering	Rasmus Lydiksen - 11647 Kevin Grooters – 11655		
Information and Communication Technology	Anders Opstrup - 11726		
Has project been pre-qualified by specific ASE staff? -Indicate name of staff	Torben Gregersen		
Special demands to: - equipment - place - confidentiality			
Project provider Company, ASE staff or Students	Company	Name	Telephone
	ASE/IHA	Rasmus Lydiksen Kevin Grooters Anders Opstrup	28604912 21759001 31102362
	Title	Email	Mobile phone
	Students	11647@iha.dk 11655@iha.dk 11726@iha.dk	28604912 21759001 31102362
ASE supervisor To be approved later by ASE	Company	Name	Telephone
	ASE/IHA	Torben Gregersen	41893255
	Title	Email	Mobile phone
	Associated professor	tg@iha.dk	23707148

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Project description

At ASE/IHA an "AeroQuad Cyclone ARF Kit" drone is available. The drone is normally remote controlled via radio.

The goal of this project is to make it possible for the operator to determine a destination position for the AeroQuad Drone and let the AeroQuad Drone fly in an autonomous way to the selected position.

The AeroQuad drone is able to carry extra equipment. It's desired to add a GPS receiver, a 3G module and a camera to the AeroQuad drone.

The 3G module will enable communication to the drone and the GPS module will make it possible for the drone to detect its current position when it is airborne.

Furthermore it shall be possible to receive pictures taken with the camera and route descriptions. All pictures and route descriptions shall be stored in a database.