



MECHANICAL ENGINEERING DESIGN PROJECTS

FINAL REPORT

PROJECT OVERVIEW

This project will address the need for a low cost UAV that can be easily deployed by military personnel for near-field surveillance purposes. The low cost feature of this system will allow the rocket-launched glider to be considered disposable. Furthermore, the system must be fast and easy to deploy, allowing field units to remain agile and gather the needed information quickly. The camera that will be on board the glider will transmit back to the unit, giving the troops a real time video of the area being surveyed and rendering the retrieval of the plane unnecessary. Lastly, the system must be able to cover a large range so that the use of the surveillance equipment will provide the troops with information they would not be able to easily attain using other means.

The UAV will undergo two distinct phases during its flight: launch phase and flight phase. The launch phase will use rocket engine propulsion to elevate the system to a height that will allow the glider to reach a desirable range. The flight phase will occur after the propulsion is concluded and will carry the surveillance equipment to the sites which must be surveyed. The glider must be able to carry a payload of the battery, camera, transmitter, necessary electronics, and control system (needed for autonomous flight and stabilization).

The challenge in constructing a UAV that can execute both a rocket launch and autonomous flight phase is that these two modes have very different demands on the vehicle. For rocket launch, high forces are present due to the thrust from the engine and the lift and drag forces on the wings. Due to these forces, the glider must have enough structural strength to ensure that the wings and tail survive the launch. These components must also be able to survive the heat generated from the rocket engine. Additionally, the forces acting on the glider must be located properly to ensure stability throughout the launch. For the flight phase, the glider must have the appropriate control surfaces to allow for continuous control from the flight program. These control surfaces will have to be used to ensure that the glider reaches its designated waypoint.

The current state of the art in this field is quite limited. Although the U.S. military currently uses countless drones in the field such as the Predator and Reaper UAVs, these are relatively expensive, slow to deploy vehicles that may not be available to a team in the field. There are many systems that can be easily hand-launched by a small team, though the advantage of a rocket would be the speed of deployment and extended range of the UAV. A senior design team from Vanderbilt University appears to have already successfully implemented a rocket-launched UAV, but they used a very large rocket that would not be suitable for use by a small remote team. A few other teams have developed smaller rocket-launched UAVs, including a project called "Guardian 2.0" and a UAV developed at the University of

Project Report For Diploma In Mechanical Engineering

**S F.. Simmons,M. M. Rahman,A.
Watson**

Project Report For Diploma In Mechanical Engineering:

Facing Global Environmental Change Hans Günter Brauch, Navnita Chadha Behera, Patricia Kameri-Mbote, John Grin, Úrsula Oswald Spring, Béchir Chourou, Czeslaw Mesjasz, Heinz Krummenacher, 2009-06-04 The year 2007 could perhaps accurately be described as the year when climate change finally received the attention that this challenge deserves globally. Much of the information and knowledge that was created in this field during the year was the result of the findings of the Fourth Assessment Report AR4 of the Intergovernmental Panel on Climate Change IPCC which were disseminated on a large scale and reported extensively by the media. This was the result not only of a heightened interest on the part of the public on various aspects of climate change but also because the IPCC itself proactively attempted to spread the findings of its AR4 to the public at large. The interest generated on the scientific realities of climate change was further enhanced by the award of the Nobel Peace Prize to the IPCC and former Vice President of the US Al Gore. By taking this decision in favour of a leader who has done a great deal to create awareness on climate change and a body that assesses all scientific aspects of climate change and disseminates the result of its findings the Norwegian Nobel Committee has clearly drawn the link between climate change and peace in the world.

Report of the Indian Statutory Commission ... Great Britain. Indian Statutory Commission, 1930 **Graduate Studies**, 1993 **British Universities' Guide to Graduate Study**, 1993

International Symposium on History of Machines and Mechanisms Marco Ceccarelli, 2007-11-23 The HMM2004 International Symposium on History of Machines and Mechanisms is the second event of a series that has been started in 2000 as main activity of the IFToMM Permanent Commission for History of MMS Mechanism and Machine Science. The aim of the HMM Symposium is to be a forum to exchange views, opinions and experiences on History of MMS from technical viewpoints in order to track the past but also to look at future developments in MMS. The HMM Symposium Series is devoted to the technical aspects of historical developments and therefore it has been addressed mainly to the IFToMM Community. In fact, most of the authors of the contributed papers are experts in MMS and related topics. This year HMM Symposium came back to Cassino after the challenging first event in 2000. The HMM2004 International Symposium on History of Machines and Mechanisms was held at the University of Cassino, Italy, from 12 to 15 May 2004. These Proceedings contain 29 papers by authors from all around the world. These papers cover the wide field of the History of Mechanical Engineering and particularly the History of MMS. The contributions address mainly technical aspects of historical developments of Machines and Mechanisms. History of IFToMM, the International Federation for the Promotion of Mechanism and Machine Science, is also outlined through the historical activities of some of its Commissions.

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