



## MECHANICAL ENGINEERING DESIGN PROJECTS

### FINAL REPORT

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## 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 In Mechanical Engineering

**Lingsheng Yao**



## **Project Report In Mechanical Engineering:**

**Senior Design Projects in Mechanical Engineering** Yongsheng Ma,Yiming Rong,2021-11-10 This book offers invaluable insights about the full spectrum of core design course contents systematically and in detail This book is for instructors and students who are involved in teaching and learning of capstone senior design projects in mechanical engineering It consists of 17 chapters over 300 illustrations with many real world student project examples The main project processes are grouped into three phases i e project scoping and specification conceptual design and detail design and each has dedicated two chapters of process description and report content prescription respectively The basic principles and engineering process flow are well applicable for professional development of mechanical design engineers CAD CAM CAE technologies are commonly used within many project examples Thematic chapters also cover student teamwork organization and evaluation project management design standards and regulations and rubrics of course activity grading Key criteria of successful course accreditation and graduation attributes are discussed in details In summary it is a handy textbook for the capstone design project course in mechanical engineering and an insightful teaching guidebook for engineering design instructors

*Scientific and Technical Aerospace Reports* ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Sea Grant Publications Index ,1975

**Consolidated R&D Annual Project Report** United States. Army. Quartermaster Corps,1951

**NASA DoD aerospace knowledge diffusion research project. Report number 6, The relationship between the use of U.S. government technical reports by U.S. aerospace engineers and scientists and selected institutional and sociometric variables** ,1991 A study was undertaken that investigated the relationship between the use of U S government technical reports by U S aerospace engineers and scientists and selected institutional and sociometric variables Survey research is the methodology used for the study Data were collected by means of a self administered mail questionnaire The approximately 34 000 members of the American Institute of Aeronautics and Astronautics AIAA served as the study population The response rate for the survey was 70 percent A dependent relationship was found to exist between the use of U S government technical reports and three of the institutional variables academic preparation years of professional aerospace work experience and technical discipline The use of U S government technical reports was found to be independent of all of the sociometric variables The institutional variables best explain the use of U S government technical reports by U S aerospace engineers and scientists

**NOAA Technical Memorandum EDS ESIC.** Environmental Science Information Center,1972

**NOAA Technical Memorandum EDS ESIC.** United States. National Oceanic and Atmospheric Administration,1972

**Sea Grant Publications Index, 1968-72** ,1973

Sea Grant Publications Index, 1968-71 ,1972

**U.S. Government Research Reports** ,1958

**Report** United States. National Bureau of Standards,1968

**Design for Manufacturing** Corrado Poli,C. Poli,2001-08-31 CD ROM

contains Power Point presentations Video clips Quicktime movies      *Resources in Education* ,1994      **Mechanical Engineering Practices in Industry** Dhruba J Syam,2023-06-02 The four year undergraduate course in Engineering is loaded with theoretical contents and the students hardly find enough time and opportunity to adequately grasp the physical and practical aspects of application of various engineering theories that are being taught Therefore certain practice oriented knowledge inputs in these years may help them acquire and enhance proficiency in the industrial working systems and processes This book attempts to provide certain practice oriented knowledge inputs which may help young mechanical engineers who aspire to make a successful career in engineering goods manufacturing enterprises The book seeks to provide a combination of Engineering and Production Manufacturing Management aspects to enable young mechanical engineers to make a confident start at the workplace and eventually ascend to leading positions in the organization Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan and Bhutan      **Bibliography of Technical Reports** ,1954

**Solar Energy Update** ,1978      **Seismic Design and Retrofit of Bridges** M. J. N. Priestley,F. Seible,Gian Michele Calvi,1996-04-12 Because of their structural simplicity bridges tend to be particularly vulnerable to damage and even collapse when subjected to earthquakes or other forms of seismic activity Recent earthquakes such as the ones in Kobe Japan and Oakland California have led to a heightened awareness of seismic risk and have revolutionized bridge design and retrofit philosophies In *Seismic Design and Retrofit of Bridges* three of the world's top authorities on the subject have collaborated to produce the most exhaustive reference on seismic bridge design currently available Following a detailed examination of the seismic effects of actual earthquakes on local area bridges the authors demonstrate design strategies that will make these and similar structures optimally resistant to the damaging effects of future seismic disturbances Relying heavily on worldwide research associated with recent quakes *Seismic Design and Retrofit of Bridges* begins with an in depth treatment of seismic design philosophy as it applies to bridges The authors then describe the various geotechnical considerations specific to bridge design such as soil structure interaction and traveling wave effects Subsequent chapters cover conceptual and actual design of various bridge superstructures and modeling and analysis of these structures As the basis for their design strategies the authors focus is on the widely accepted capacity design approach in which particularly vulnerable locations of potentially inelastic flexural deformation are identified and strengthened to accommodate a greater degree of stress The text illustrates how accurate application of the capacity design philosophy to the design of new bridges results in structures that can be expected to survive most earthquakes with only minor repairable damage Because the majority of today's bridges were built before the capacity design approach was understood the authors also devote several chapters to the seismic assessment of existing bridges with the aim of designing and implementing retrofit measures to protect them against the damaging effects of future earthquakes These retrofitting techniques though not considered appropriate in the design of new bridges are given considerable emphasis since they currently offer the best solution for the preservation of these vital and often historically

valued thoroughfares Practical and applications oriented Seismic Design and Retrofit of Bridges is enhanced with over 300 photos and line drawings to illustrate key concepts and detailed design procedures As the only text currently available on the vital topic of seismic bridge design it provides an indispensable reference for civil structural and geotechnical engineers as well as students in related engineering courses A state of the art text on earthquake proof design and retrofit of bridges Seismic Design and Retrofit of Bridges fills the urgent need for a comprehensive and up to date text on seismic ally resistant bridge design The authors all recognized leaders in the field systematically cover all aspects of bridge design related to seismic resistance for both new and existing bridges A complete overview of current design philosophy for bridges with related seismic and geotechnical considerations Coverage of conceptual design constraints and their relationship to current design alternatives Modeling and analysis of bridge structures An exhaustive look at common building materials and their response to seismic activity A hands on approach to the capacity design process Use of isolation and dissipation devices in bridge design Important coverage of seismic assessment and retrofit design of existing bridges [Recent Library Additions](#) ,1992

**Advances in Mechanical Engineering** Vilas R. Kalamkar, Katarina Monkova, 2020-06-29 This book presents select peer reviewed proceedings of the International Conference on Advances in Mechanical Engineering ICAME 2020 The contents cover latest research in several areas such as advanced energy sources automation mechatronics and robotics automobiles biomedical engineering CAD CAM CFD advanced engineering materials mechanical design heat and mass transfer manufacturing and production processes tribology and wear surface engineering ergonomics and human factors artificial intelligence and supply chain management The book brings together advancements happening in the different domains of mechanical engineering and hence this will be useful for students and researchers working in mechanical engineering

**Engineering Design** Clive L. Dym, 2013-10-28 Dym Little and Orwin's Engineering Design A Project Based Introduction 4th Edition gets students actively involved with conceptual design methods and project management tools The book helps students acquire design skills as they experience the activity of design by doing design projects It is equally suitable for use in project based first year courses formal engineering design courses and capstone project courses

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