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757 Words [2 Pages] Electrical Engineering is probably expanding more than any other field of engineering. This field deals with the study and application of electricity, electromagnetism, and electronics. Electrical engineers study and apply the physics and mathematics of electricity, electronics, and electromagnetism to both large and small scale systems to process information and transmit energy. (Cal Poly State University) Since the early ages at around 500 B.C. are recorded documents that bring up questions of 532 Words [2 Pages] Electrical engineering arose in the late 1800s and was heavily influenced by the work of many pioneers such as Nikola Tesla, Thomas Edison, and George Westinghouse. These inventors contributed greatly to the work in which electricity could be efficiently produced, distributed and used to improve society in a big way. Electrical engineering is a form of science that specializes in the study of electricity, electromagnetism, and electromechanical devices. Mathematics is the common language that is 1054 Words [3 Pages] 2.1 Electrical Engineering Industry In General Electrical engineering industry is primarily concerned with the technology of electricity, specifically in the design and application of devices and circuitry for generation of electricity. The other major activities of electrical engineering industry comprises of controlling power generated equipments and communication devices of telephone, radio and satellite transmission. It generally deals with the study and application of the field of electronics, electronics 682 Words [2 Pages] STATEMENT OF PURPOSE After one year's work experience as an electrical engineer at _____, a private LPG filling company with various filling plants located in Pakistan. After the completion of my undergraduate degree in 2012, I have been making constant efforts to develop better understanding in the field of Electrical Engineering. So, I joined _____ and worked there as a Trainee Electrical Engineer for over 1 year. My training responsibilities areas were circuit breakers supervision, switch 89 Words [2 Pages] and coursework in Electrical Engineering to enhance my competencies in this field. I intend to complete my master's degree in order to pursue my doctorate. The research that I am most interested in pursuing at Northeastern University surrounds the optical properties of MEMS devices, and the development of substrate-based fast electro-optical interfaces. My interest in this area stems from my undergraduate study in MEMS development for tri-axial accelerometers. Engineering has been a key interest 1912 Words [4 Pages] Electrical Engineering Work Performed Electrical Engineers research, develop, design, and test electronic components, products, and systems for commercial, industrial, medical, military, and scientific applications (Cosgrove 749). They are concerned with devices that use small amounts of electricity that make up electronic components such as integrated circuits and microprocessors. By applying principles and techniques of electronic engineering they design, develop, and manufacture products such 1910 Words [4 Pages] Statistics defines an electrical engineer as someone that designs, develops, tests, and supervises the manufacturing of electrical equipment such as electric motors, radar and navigation systems, communications systems, or power generation equipment. Electrical engineers work with but are not limited to electricity, electronics and electromagnetism (What Do Electrical Engineers Do?). These engineers can work in labs, offices or on the floor of some major industries. Electrical engineers may solve 1117 Words [3 Pages] Come. Hence my desire to do masters in electrical engineering with communications as my major. My interest in Electrical dates back the early days of my high school. My career objective is to pursue research in the field of Electrical Engineering. I am of firm conviction that suitable opportunity to pursue graduate studies will help in my endeavor towards realizing my goal, paving the path for self-actualization. The field of electrical & electronics engineering has always fascinated me. I picked up 1295 Words [3 Pages] predictable pattern when subjected to given conditions (Naiah & Kamakashia, 1995). What Electrical engineering? Electrical engineering is a field that deals with the applications of the technology of electricity, such as generating, distributing electrical energy, and programming electrical systems. In this field, there are many famous scientists. For example, Alexander Graham Bell, who 1269 Words [3 Pages] I was particularly peaked after I read the about the work done by eminent scientists in these fields. It was then I decided to pursue Electrical engineering since it comprised of subjects that catered to my interests like power and electromagnetism. My undergraduate studies got me interested in the application of mathematics in engineering and I topped the subject in my second year of engineering and was also a University Rank Holder (9th). Mathematics simplifies concepts into numbers, constants, variables and equations 745 Words [2 Pages] Writing in Electrical Engineering Have you recently found yourself lost after high school, knowing that you want to go to college, but having no idea what to major in? I sure did! So after reading through the NMSU undergraduate catalogue and asking peoples advice, I found out that our university has one of the top 5 engineering colleges in the entire country and problems were solved! With a fascination of electronics and a steady hold on math, I decided that Electrical Engineering was the choice 1012 Words [3 Pages] Robotics 9-11-17 Electrical engineering An electrical engineer is someone who designs and develops new electrical equipment, solves problems and tests equipment. They work with all kinds of electronic devices, from the smallest pocket devices to large supercomputers. Electrical engineering deals with electricity, electromagnetism and electronics. It also covers power, control systems, telecommunications and signal processing. These engineers are usually concerned with large-scale electrical systems such 1035 Words [3 Pages] Pursuing, I am particularly interested in a career as either an electrical engineer or a software developer. Electrical engineers fall within the Career Cluster of architecture and engineering. From 2012 to 2022, employment in the field of electrical engineering projected to grow 4 percent, which is less than the average projected growth rate for all careers. There are no major geographic restrictions to becoming an electrical engineer, however most move to where the companies are located. Travel 721 Words [2 Pages] The unemployment. This has motivated me to pursue higher studies in MS (Electrical Engineering) and that to in communication and signal processing which is my forte, but I would be glad if at all get a chance of doing a PhD in "Arizona State University" INSPIRATIONAL FACTORS - My Brother Who is a graduate from RIT(Rochester Institute of technology) has been my motivational drive to take electrical engineering as my profession, not only that, in my view plenty of online courses which are 306 Words [2 Pages] Electrical engineering is a field that majorly involves the use of technology in the designing, developing, and testing electrical devices. Majors in electrical engineering focuses on the physics of electricity and magnetism, analysis and design tools of engineering, and circuits and system mathematics. If one takes a course in engineering, they are trained on how to design and make products, which are safe and can enhance human life. This course is not popular to many for it is very demanding and 1040 Words [3 Pages] World of Engineering. The world functions effectively because of engineering. The beautiful aspect being the ability to create, utilize resources, and bring something into existence that will change or construct something beneficial to humanity. There is not a more exciting field to be involved in, especially now, as the on demand world continues to thrive and advance into new levels. Electrical Engineering (EE) is the field that interests me most though I am open to other fields of Engineering if 1630 Words [2 Pages] A strong prediction towards research have made the choice of further study an obvious one for me. My ultimate objective is to pursue a career in research, either in industry or in academia. I strongly believe that a Masters Degree in Electrical Engineering from your esteemed University will act as a crucial first step in the process of realizing my career objectives. I have always cherished a dream to become an Engineer, a dream that was innate and developed slowly over the years. Right from 2458 Words [5 Pages] A Career in Electrical Engineering Choosing the right career can mean the difference between being satisfied and being disappointed with my life. Many factors can influence the career that I may have for the rest of my life. A decision that I am going to make at the young age of nineteen will have a major impact on the next ten years if not the rest of my life. In order to make the best decision possible for my future I have decided, if not forced, to research a career of interest to me. The two Share copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation. No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. 0 ratings 0% found this document useful (0 votes) 4K views This document provides an overview of basic electrical engineering principles and sample problems. It introduces fundamental concepts such as current, voltage, resistance and Ohm's Law. ExamAI-enhanced title and description Save as MODULE-1-Basic-Electrical-Engineering-Principles...p... 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