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Donald Ansari\*

Innovations across many fields. Mechanical engineers may develop a component, a machine, a system, or a process to suit this wide demand. A study of statics is concerned with how forces are transmitted from the greatest systems, such as autos and satellites, to the smallest through a structure. Mechanical engineers look at dynamics, components, like as sensors and switches, this spans the macro to the micro. Mechanical engineers are needed for anything that needs to move a system is in motion. A study of how a mechanism acts as it moves through its range of motion is called kinematics. Materials manufactured—indeed, anything with moving parts.

Mechanical engineering brings together creativity, expertise, and analytical tools to complete the challenging task of turning a concept into reality. It occurs on a personal level, touching human lives, and on a level that we can reach out and touch, similar to robotic prosthetics. It takes place on a local level, affecting individuals in society, such as with nimble networked micro grids. It also occurs on larger scales, such as with modern power systems, through engineering detection and analysis of temperature data and distributions. Fluid mechanics examines a number of features, including pressure drops range of opportunities, and their education reflects this diversity from uid movement and aerodynamic drag forces, among others.

\*Corresponding author: Donald Ansari, Department of Engineering, Universiti Tenaga Nasional, 43000 Kajang, Selangor, Malaysia, E-mail: ansari23@uniten.edu.my

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