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with an aerospace engineering emphasis for entry-level work.

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spacecraft. It has two major and overlapping branches: aeronautical engineering and astronautical engineering. Avionics engineering is similar, but deals with the electronics side of aerospace engineering.

"Aeronautical engineering" was the original term for the field. As flight

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technology advanced to include vehicles operating in outer space, the broader term "aerospace engineering" has come

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process, the technique is highly ...

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The Aircraft Design Process STEP 1: Problem Definition. At this initial stage, a new market demand has been identified. For example, a company

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might... STEP 2: Conceptual Design. This stage includes back of the envelope calculation, where all the ideas are brainstorm. As... STEP 3: Preliminary ...

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aircraft and their components. Aircraft engineers research design specifications for aircraft and the relevant support equipment.

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design, and ground system design. The design of manned aircraft and the design of UAVs have some similarities and some differences. They include the design process, constraints (e.g., g-load, pressurization), and UAV main components (autopilot, ground station, communication, sensors, and

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payload). A UAV designer must be aware of the latest UAV developments; current technologies; know lessons learned from past failures; and they should appreciate the breadth of UAV design options. The contribution of unmanned aircraft continues to expand every day and

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over 20 countries are developing and employing UAVs for both military and scientific purposes. A UAV system is much more than a reusable air vehicle or vehicles. UAVs are air vehicles, they fly like airplanes and operate in an airplane environment. They are designed like air vehicles; they have to

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