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FEASIBILITY STUDY OF LAUNCHING ROCKETS FROM UAE: CASE STUDY ON SMALL  
SATELLITE LAUNCHER

**Abstract**

Over the past decade, the UAE has experienced unprecedented innovation in the space sector. The UAE began establishing knowledge transfer programs in preparation of a grand vision: to go to Mars. If all goes according to plan, the small, oil-rich country will be among the first nations to study and eventually send manned missions to the Red Planet. Recently, a spattering of successful launches and major announcements following the formation of the UAE Space Agency in 2014 have turned a spotlight on the UAE's ambitious plans. The UAE aims to establish the first inhabitable human settlement in Mars by 2117. On this occasion HH Sheikh Mohammed bin Rashid Al Maktoum was quoted saying "The new project is a seed that we plant today, and we expect future generations to reap the benefits, driven by its passion to learn to unveil a new knowledge,". To achieve this goal, the development of this space sector should consider the development of all space technologies including transport vehicle i.e. Launchers. The development of space sector is growing rapidly, and the demand for small satellite launcher is increasing. To this moment, there's no rocket launcher program initiated, however this study will showcase a study on the possibility of launching a small satellites into orbits from the United Arab Emirates.