

2<sup>nd</sup> World Summit on

## Automotive and Autonomous Systems

June 09, 2022 | Webinar

### Value Engineering in Engineering Projects

#### Introduction:

The main purpose of Value Engineering is to deliver the necessary function of a certain facility at the lowest cost. In order to better understand the application of VE, one should first identify the main terms which called Function, Cost, Worth and Value. The systematic approach of Value Engineering is the job plan. It helps to identify high cost areas of the project. The function analysis approach leads to more creative solutions than item oriented traditional cost reduction approaches. Another approach used for identifying and classifying the functional relationships of a study project known as Functional Analysis System Technique (FAST).

#### Conclusion:

By using of FAST, a good understanding of the overall problem and its solution can be obtained.

#### Keywords:

Value Engineering – Cost – Function – Worth – Job Plan

#### Biography:

Mahmoud Fahmy Elbaz Aly Elshourbagy is a Professor and Consultant of Transportation Engineering at Faculty of Engineering, El-Mansoura University, Egypt. He is a author of 26 articles in international conferences and published in their proceedings, 15 articles in scientific journals in the area of Transportation Engineering, 6 - papers in international journals in the area of Transportation Engineering, three books in the field of Highway, Transportation and Traffic Engineering published by the Dar El-Nile, El-Mansoura, Egypt and Author of two- books in the field of Highway, and Traffic Engineering published by King Saud University, Kingdom of Saudi Arabia



**Mahmoud Fahmy  
Elbaz Aly Elshourbagy**  
El-Mansoura University,  
Egypt

[mahmoudshourbagy@hotmail.com](mailto:mahmoudshourbagy@hotmail.com)

Received: 01 March 2022; Accepted: 03 March 2022; Published: June 09 2022