**Assignment 5: System Design**

**AI Robot using NVIDIA Jetson Nano**

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ETEC 306: QA and Project Management

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**User Interface**

**Power supply**

**Speaker**

**Display Module**

**Camera Module**

**Microphone**

Jetson Nano Board

**Operating System (OS)**

**Motor control Interface**

**Speech Recognition Module**

**Internet Connectivity**

**Visual Processing module**

**Control Logic**

**Natural Language Processing (NLP) Module**

**AI Model Inference Engine**

**Speech Synthesis Module**

**Answer Generation Module**