



J.A.M.E.S

**J.A.M.E.S Coin  
Story**

**Requirements**  
and targeted architecture

# JAMES Coin

## 1. Requirements

To finish the JAMES Coin Story, the following requirements are supposed to be fulfilled:

### 1. Mechanical requirements:

- a. The final structure shall have the approximate lateral size of a 2€ coin
- b. The structure shall contain 3D design aspects, that are not manufacturable with traditional PCB technology
- c. The final design shall be appealing and contain the JAMES logo

### 2. Electrical requirements:

- a. The JAMES Coin shall provide a basic NFC functionality with enough memory to save basic business card information
- b. The capacitors needed for the structure shall be also printed with AME process used for the rest of the JAMES Coin
- c. To increase the overall long-term stability of the Coins functionality and the connection to the external COTS components, those components shall completely be embedded in the AME structure

### 3. Targeted application

- a. The JAMES Coin shall be designed such, that it can be used as a digital business card