

R & D Capability

Tron Link Technology Co., Ltd.
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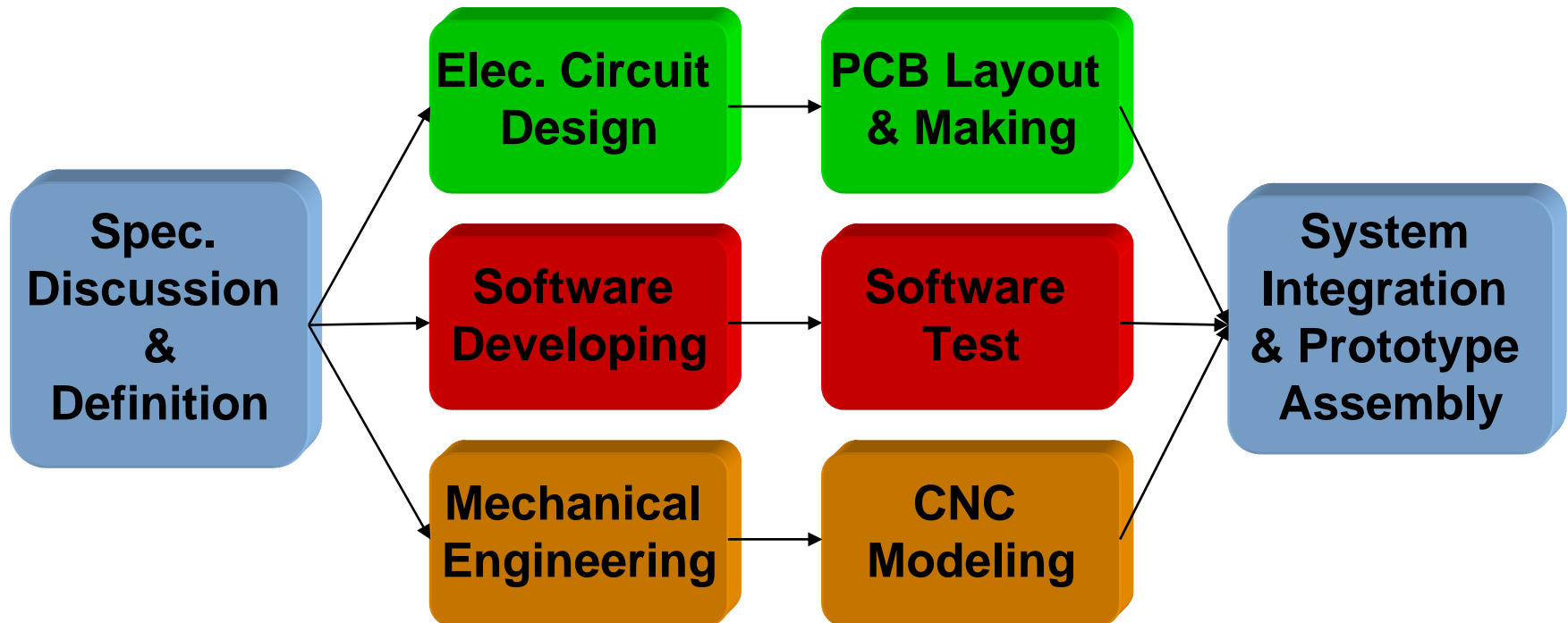
Outline

- **R&D Capability of Tronlink**
- **Development System & Equipments**
- **Achievements**
- **Development Timeline**
- **Benefits of working with Tronlink**
- **Q&A**

R&D Capability of Tronlink

- **Ideas & Concepts Creation**
- **Electronics Design and Engineering**
- **Mechanical Design and Engineering**
- **Fast Prototyping**
- **Product Evaluation, Reliability Test**
- **Pilot Production & Mass Production**

Development Phases



- **Electronics and Mechanical Engineering are implemented by Tronlink**
- **Software Engineering is outsourced to partner companies**

Development System

- **Team**
 - 10 Electronics Engineers
 - 15 Mechanical Engineers
 - 3 Software Houses (third party)
- **Computer Tools**
 - Circuit Design tool: Protel 99SE
 - 3D CAD tool: Pro/Engineer
- **Equipments**
 - Prototyping and modeling equipments
 - Electronics test and measurement equipments
 - Reliability test equipments

Prototyping and Modeling Equipments (I)

- **CNC Modeling Machine**
 - For plastic parts and 3D shape modeling
 - Advantages:
 - Fast
 - Precise
 - Able to sculpt 3D Curved surface
 - Can feed CAD data
 - One machine in Taiwan,
 - One machine in mainland China



Prototyping and Modeling Equipments (II)

- **Lathe**
- **Milling Machine**
- **Sawing Machine**
- **Ventilator for spray painting**



Electronics Test and Measurement Equipments

- Oscilloscope
- Signal Generator
- Spectrum Analyzer
- Network Analyzer



Reliability Test Equipments

- **Horizontal/Vertical Vibration Test Machine**
- **Drop Test Machine**
- **Temperature/Humidity Test Machine**
- **Impact Test Machine**
- **Electro-Static Discharge (ESD) Test Machine**

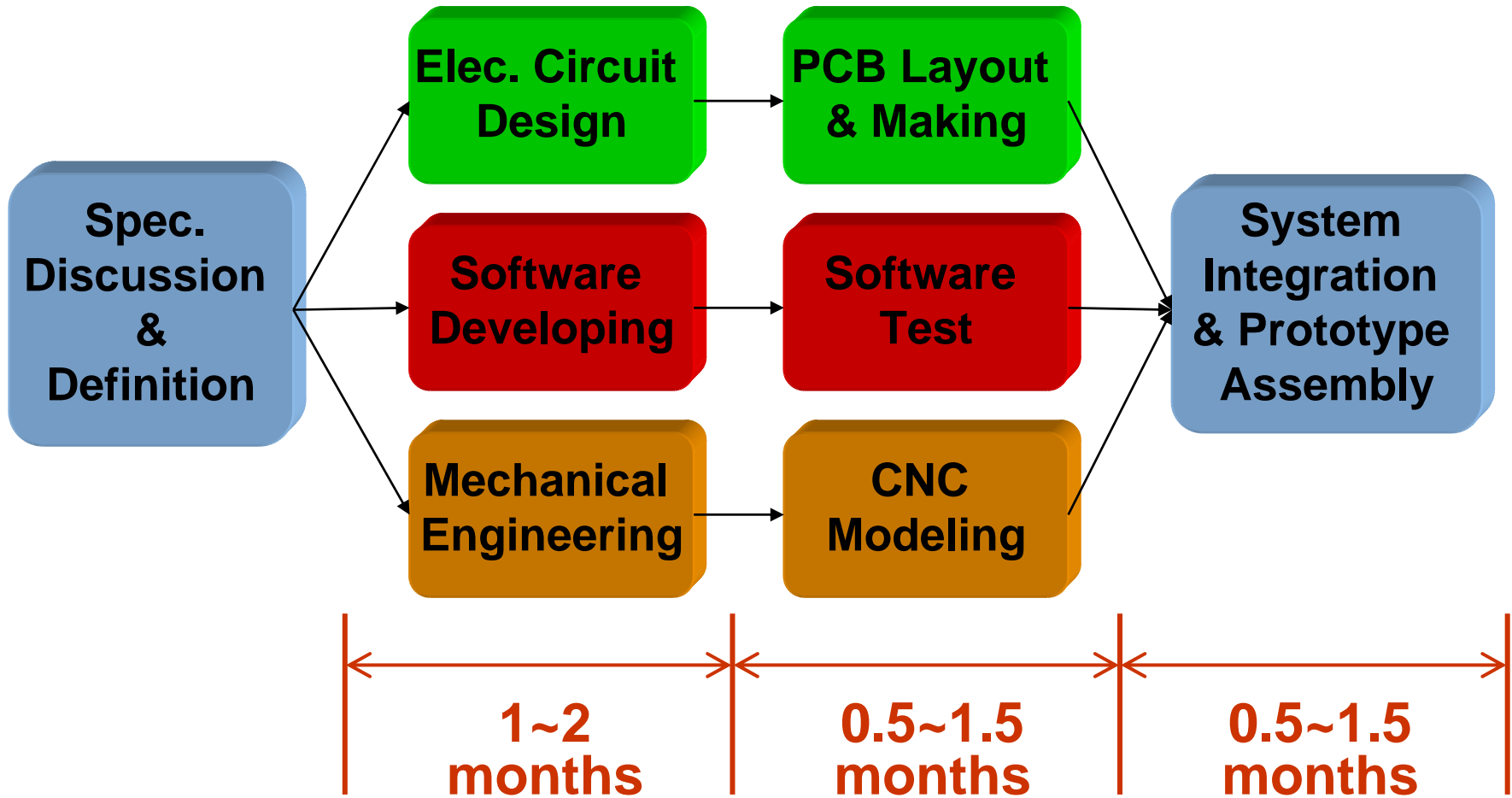


Achieved Works

- **Handwriting Recognition Tablet**
- **RFID Emotion Doll**
- **Voice Recognition Doll**
- **Classic Robot**
- **Optical ID + MP3 English Learning Player**
- **FRS Walkie Talkie**
- **Intelligent Network Hub**
- **Internet Content Agent**
- **...etc**



Development Timeline



Benefits of working with Tronlink

- **Short Development Time**
- **Cost-Effective Charge**
- **Advanced Technology**
 - We locate in Taiwan where there are lots of high-performance, low-cost electronic components and technologies
- **Good Communication**
- **Able to verify and analyze the product, and do reliability tests**
- **Develop to Mass Manufacture**
 - We not only make one piece, we make million
 - In design stage, we already consider the manufacturability

Q&A

