Sanaria Robot Background

- Need for a reliable Malaria vaccine coverage is urgent
- Sanaria Inc.’s malaria vaccine can improve malaria protection efforts
- **Key step in vaccine production**: extraction of Sporozoite from mosquito salivary glands

**Project Goal**: Develop an autonomous mosquito microdissection system to automate process
- Minimal operator intervention
- High accuracy
- High throughput

Looking for student with EE or ECE background

**What Student Will Do:**
- Design and build an enclosure for electronic components
  - Enclosure must be actively cooled and splash resistant
  - Components include: power supply with 48/12/5V buses, 4x EPOS4 controllers, 4x Arduinos
- Create wiring diagram for entire Sanaria system

**Deliverables:**
- Documented electrical schematics
- Enclosure with mounted components, neat wiring, connectors built in, active cooling

**Skills**: Electrical design/expertise, catalogue engineering

**Compensation**: hourly payment available

2. Under development: Automated Dissection Process