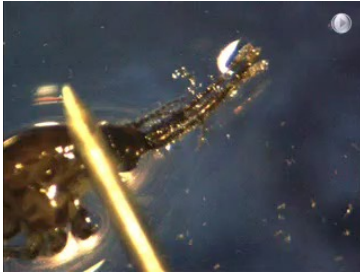
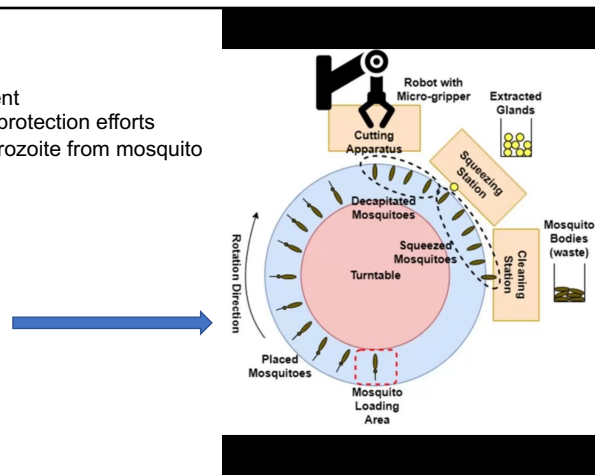


## Sanaria Robot Background

- 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



Current Manual Dissection Process



Under development: Automated Dissection Process

**Project Goal:** Develop an autonomous mosquito microdissection system to automate process

- Minimal operator intervention
- High accuracy
- High throughput



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## Looking for student with EE or ECE background

### • What Student Will Do:

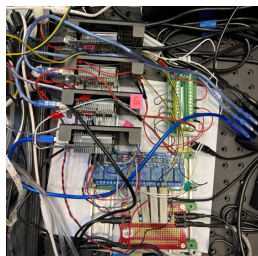
- Design and build an enclosure for electronic components
  - Enclosure must be actively cooled and splash resistant
  - Components include: power supply with 48/12/5V buses, 4x EPOS4 controllers, 4x Arduinos
- Create wiring diagram for entire Sanaria system

### • 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



Turn this



into this



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