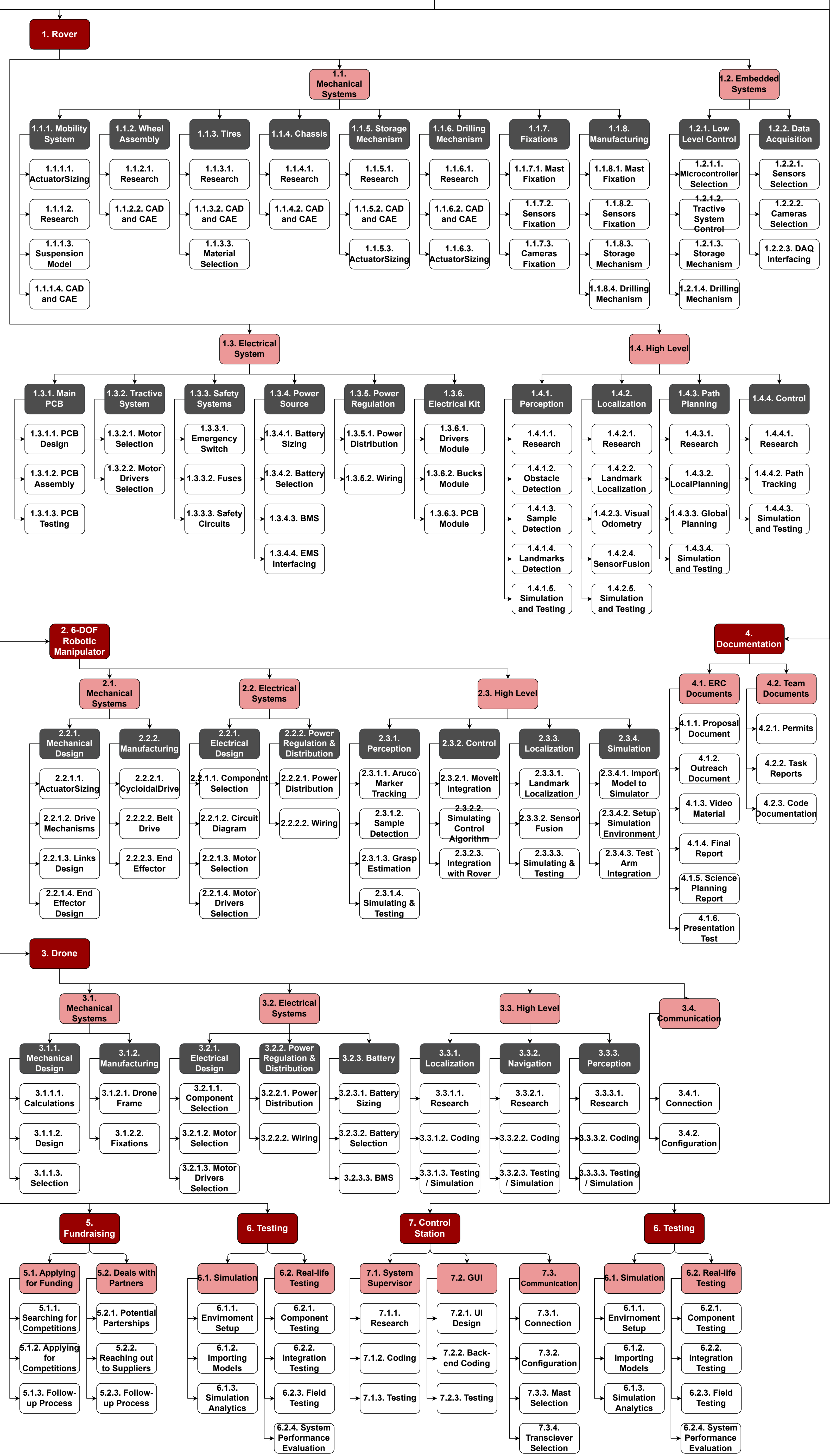


```
.MathJax svg { shape-rendering: crispEdges; } @media print { body > div { page-break-inside: avoid; page-break-after: always; } g[style*="filter: drop-shadow("] { filter: none !important; } } product-tree.drawio.pdf@page
gePageFormat-____-____ { margin: 0; size: 23.39in 33.00in; } .gePageFormat-____-____ { page: gePageFormat-____-____; width: 23.39in; height: 33.00in; } .gePageFormat-____-____ > svg { margin: 0.00in; } mjx-container[jax="SVG"] { direction: ltr; } mjx-container[jax="SVG"] > svg { overflow: visible; min-height: 1px; min-width: 1px; } mjx-container[jax="SVG"] > svg a { fill: blue; stroke: blue; } mjx-container[jax="SVG"] [display="true"] { display: block; text-align: center; margin: 1em 0; } mjx-container[jax="SVG"] [display="true"] [width="full"] { display: flex; } mjx-container[jax="SVG"] [justify="left"] { text-align: left; } mjx-container[jax="SVG"] [justify="right"] { text-align: right; } g[data-mml-node="merror"] > g { fill: red; stroke: red; } g[data-mml-node="merror"] > rect[data-background] { fill: yellow; stroke: none; } g[data-mml-node="mtable"] > line[data-line], svg[data-table] > g > line[data-line] { stroke-width: 70px; fill: none; } g[data-mml-node="mtable"] > rect[data-frame], svg[data-table] > g > rect[data-frame] { stroke-width: 70px; fill: none; } g[data-mml-node="mtable"] > .mjx-dashed, svg[data-table] > g > .mjx-dashed { stroke-dasharray: 140; } g[data-mml-node="mtable"] > .mjx-dotted, svg[data-table] > g > .mjx-dotted { stroke-linecap: round; stroke-dasharray: 0,140; } g[data-mml-node="mtable"] > g > svg { overflow: visible; } [jax="SVG"] mjx-tool { display: inline-block; position: relative; width: 0; height: 0; } [jax="SVG"] mjx-tool > mjx-tip { position: absolute; top: 0; left: 0; } mjx-tool > mjx-tip { display: inline-block; padding: .2em; border: 1px solid #888; font-size: 70%; background-color: #F8F8F8; color: black; box-shadow: 2px 2px 5px #AAAAAA; } g[data-mml-node="maction"] [data-toggle] { cursor: pointer; } mjx-status { display: block; position: fixed; left: 1em; bottom: 1em; min-width: 25%; padding: .2em .4em; border: 1px solid #888; font-size: 90%; background-color: #F8F8F8; color: black; }
foreignObject[data-mjx-xml] { font-family: initial; line-height: normal; overflow: visible; } mjx-
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container[jax="SVG"] path[data-c], mjb-container[jax="SVG"] use[data-c] { stroke-width: 3; }



3. Drone

3.1. Mechanical Systems

3.1.1. Mechanical Design

3.1.1.1. Calculations

3.1.1.2. Design

3.1.1.3. Selection

3.1.2. Manufacturing

3.1.2.1. Drone Frame

3.1.2.2. Fixations

3.2. Electrical Systems

3.2.1. Electrical Design

3.2.1.1. Component Selection

3.2.1.2. Motor Selection

3.2.1.3. Motor Drivers Selection

3.2.2. Power Regulation & Distribution

3.2.2.1. Power Distribution

3.2.2.2. Wiring

3.2.3. Battery

3.2.3.1. Battery Sizing

3.2.3.2. Battery Selection

3.2.3.3. BMS

3.3. High Level

3.3.1. Localization

3.3.1.1. Research

3.3.1.2. Coding

3.3.1.3. Testing / Simulation

3.3.2. Navigation

3.3.2.1. Research

3.3.2.2. Coding

3.3.2.3. Testing / Simulation

3.3.3. Perception

3.3.3.1. Research

3.3.3.2. Coding

3.3.3.3. Testing / Simulation

3.4. Communication

3.4.1. Connection

3.4.2. Configuration

5. Fundraising

5.1. Applying for Funding

5.1.1. Searching for Competitions

5.1.2. Applying for Competitions

5.1.3. Follow-up Process

5.2. Deals with Partners

5.2.1. Potential Partnerships

5.2.2. Reaching out to Suppliers

5.2.3. Follow-up Process

6. Testing

6.1. Simulation

6.1.1. Environment Setup

6.1.2. Importing Models

6.1.3. Simulation Analytics

6.2. Real-life Testing

6.2.1. Component Testing

6.2.2. Integration Testing

6.2.3. Field Testing

6.2.4. System Performance Evaluation

7. Control Station

7.1. System Supervisor

7.1.1. Research

7.1.2. Coding

7.1.3. Testing

7.2. GUI

7.2.1. UI Design

7.2.2. Back-end Coding

7.2.3. Testing

7.3. Communication

7.3.1. Connection

7.3.2. Configuration

7.3.3. Mast Selection

7.3.4. Transceiver Selection

6. Testing

6.1. Simulation

6.1.1. Environment Setup

6.1.2. Importing Models

6.1.3. Simulation Analytics

6.2. Real-life Testing

6.2.1. Component Testing

6.2.2. Integration Testing

6.2.3. Field Testing

6.2.4. System Performance Evaluation