Most Critical Modules

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Our design process

**What**
- Design
- Reqs

**How/What**
- Strategy
- Concepts

**How/What**
- Modules (MCM)

**How**
- Prototype
Our design process

What | How/What | How/What | How/What | How

Design Reqs | Strategy | Concepts | Modules (MCM) | Prototype

What you have done thus far
Our design process

What  How/What  How/What  How

Design Reqs  Strategy  Concepts  Modules (MCM)  Prototype
Our design process

What  How/What  How/What  How/What  How

Design Reqs  Strategy  Concepts  Modules (MCM)  Prototype

Don't be afraid to iterate
Facets of Most Critical Modules (MCMs)

**Concept**
- **What**: Physical embodiment that satisfies design requirements

**MCM**
- **How**: The *most critical* element of making your concept successful

- Prove feasibility of your module, which will prove feasibility of your overall concept
- Bench-level prototypes are great! Doesn’t have to be pretty.
- Combine theory with application - let physics show you opportunities!
- Keep considering other modules and how yours will integrate
- May have more than one very critical modules
MCM examples

Side thruster on Bluefin robot

MCM: Where does it go?
MCM examples