

**Top Level**

**F5** Control speed

**C5a** Drum brake

**C5b** Spike

**C5c** Disk brakes

**C5d** Drag based brakes

**C5e** Electric brake system

**Sub-Functions (C5a)**

**sF5** Apply pressure to wheels

**sC1a** Servo

**sC1b** Hydraulics

**sC1c** Pneumatics

**Sub-Functions (C5b)**

**sF5** Force spike into ground

**sC1a** Servo motor

**sC1b** Heavy spike with release latch

**sC1c** Shoot spike into ground

**sC1d** Hydraulics

**sC1e** Pneumatics

**Sub-Functions (C5c)**

**sF5** Apply pressure to wheels

**sC1a** Servo

**sC1b** Hydraulics

**sC1c** Pneumatics

**sC1d** Electromagnets

**Sub-Functions (C5d)**

**sF5** Increase drag coefficient

**sC1a** Flip panels outward

**sC1b** Parachute

**Sub-Functions (C5e)**

**sF5** Transform kinetic energy of motor to electrical/heat energy

**sC1a** Connect motor to storage battery/capacitor (regen braking)

**sC1b** Connect motor to resistor (dynamic braking)

**sC1c** Connect motor to power source in reverse (plug braking)