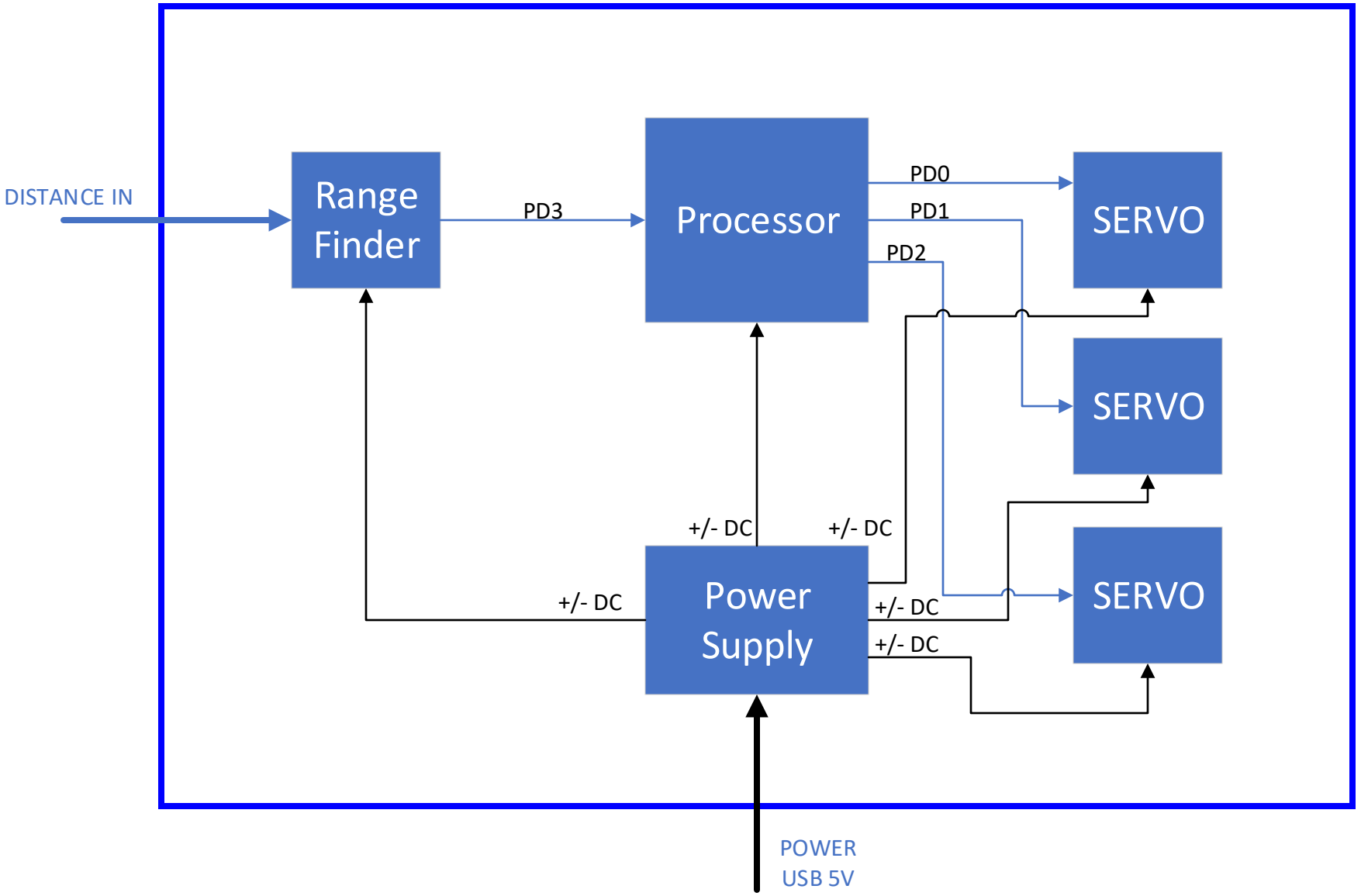
High Level Block Diagram

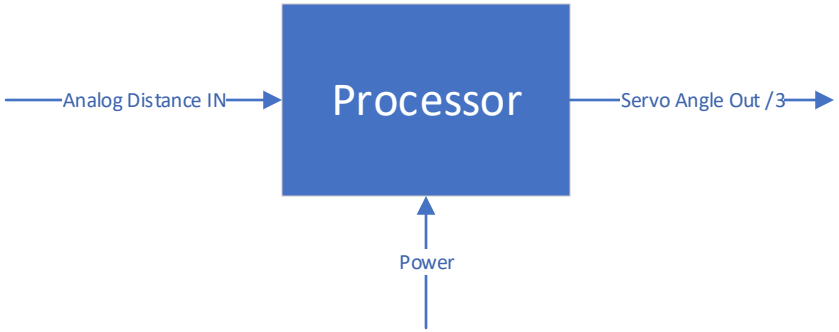
Airplane Landing Gear: Level 1



Power Supply Level 1

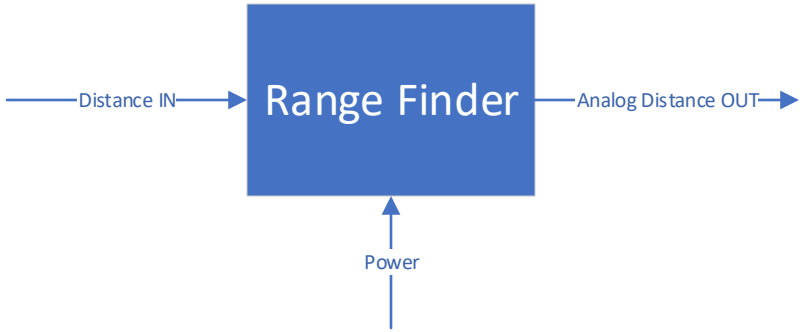
Module	Power Supply
Inputs	5V DC USB IN: USB 5V DC input
Outputs	5V DC OUT: Stable 5V DC
Functionality	Stabilizes the 5V USB input and outputs 5V into the necessary components

Processor Level 1



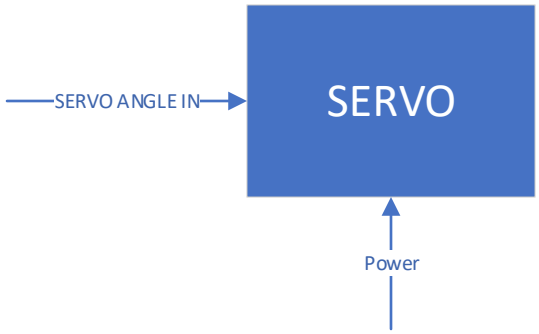
Module	Processor
Inputs	Analog Distance IN: Measured distance from the range finder that has been converted to analog Power: +/- 5V DC
Outputs	Servo Angle Out /3: Data out for the three servos to determine their angle
Functionality	Converts analog distance value into a digital value, and determining if the landing gear should be down (90 degrees) or up (0 or 180 degrees).

Range Finder Level 1



Module	Range Finder
Inputs	Distance IN: Measured distance from the range finder Power: +/- 5V DC
Outputs	Analog Distance: An analog voltage corresponding to the Distance IN
Functionality	Convert a measured distance to an analog value that corresponds to a voltage between 0V-5V

Servo Level 1



Module	SERVO
Inputs	SERVO ANGLE IN: Measured distance from the range finder Power: +/- 5V DC
Outputs	No OUTPUT signal, but physical motor movement to display 0 to 180 degrees
Functionality	Takes a digital value input determining the angle of the servo motor (0-180 degrees)