Fiat C.29	F2B
Design	WIng, empennage and arms as per Igor Burger's Max Bee. Fuselage shape inspired by the italian Fiat C.29 1'000 hp racing floatplane from 1929.
Built	Peter Germann, May 2017
Date	**24.05. 2017**
Remark:	Motor thrust axis position & angle and stabilizer position & incidence laid out for pusher prop & fixed ldg gear use. In-flight gyro forces and moments calculated by Wolfgang Nieukamp.
Specifications	
Span	1500 mm / 59 in.
Area (Wing, incl. flaps)	43.2 qdm / 670 sq.in.
Wing airfoil	Burger slightly modif. d max 65 mm / 2.56 in. Nose radius 8 mm / 5/16".
Flaps	Flat plate 7 mm / 5/16", square TE
Empennage airfoil	Burger modif. d max 19 mm / 0.75 in. Stab LE radius 0.5 mm / 0.018 in
Elevator	TE radius 1/16"
Spinner backplate to wing LE	275 mm / 10.8 in
Hingeline to hingeline	475 mm / 18.7"
Hingeline seal:	none
Stabilizer AoA	-1.0° (down)
Motor thrust axis up	+ 1.2° (up)
Motor thrust axis out	1°
Motor thrust axis below wing CL	10 mm / 0.4 in
Empennage CL above wing CL	19 mm / 0.75 in
Rabe Rudder)	15° - 30° deflects out with elevator up
Motor	AXI 2826/13 710 RPM/Volt
Battery	ThunderPower Magna 2700 mAh 5S 70C
Spark surpressing	Jeti 4 mm
Timer	Hubin FM-9
Programmer	Hubin Programmer
Speed Controller	Phoenix Edge lite 75A
Castle Link	V3.63.00
T/O weight	1'800 Gr. / 63.5 oz.
Speed Controller Setup	
Vehicle Type: Control Line	Motor Timing: Normal (5)
Throttle Type: Governor Mode	Direction: Reverse
Governor Mode Setting: Governor High	PWM Rate: 12 Khz
Governor Gain: Medium (25)	Gearing Info: No Gearing/Direct Drive
Initial Spool Up Rate: High (8)	KV of Motor: 710
Head Speed Change Rate: High (8)	Magnetic Poles in Motor: 14
Brake Strength: 90%	Power-On Beep: Enable
Brake Delay: 0.6 sec	BEC Voltage: 5.0 V
Brake Ramp: Slow	Link Live Enable: Disabled
Cutoff Voltage: 15.0 V	Auxiliary Wire Mode: Disabled
Voltage Cutoff Type: Soft Cutoff	Logging; 2 sample/second: Batt. Voltage, Batt. Current, Contr.
Current Limiting: Normal (105A)	Temp., Contr., Input Throttle, Controller Motor Power Output, Motor
Current Cutoff Type: Hard Cutoff	RPM, BEC Voltage.
Auto-Lipo Volts/Cell: Inactive	Automatic Data Reset: 90%
Battery Pack Voltage: 18.500	Firmware: V 4.22
Motor Start Power: Low (39)	
Timer Setup	Mode: ICE/EDGE, Runtime: 5'20", Delay: 30 sec.

Bench Trim (initial flight setup)	
Lines (eye-to-eye)	19.5 m / 65 ft) (0.4 mm / 0.015")
Propeller	APC 12 x 6 EP
RPM	9'504
Speed	5.3 sec/lap
Handle Spacing	102 mm / 4 in
Outside tip heavier	30 Gr / 1.2 oz
C.G. from hingeline fwd.	192 mm / 7.5 in. Battery in mid position
Leadouts center	45 mm / 1.6" rear of C.G. or 147 mm / 5.8" from hingeline fwd.
Flap / Elevator ratio / throw	1 : 1 45° / 45°