Hatfield		Revision	Description
10/20/2008		Initial release	N/A

F1 Design-Initial release

Sub-Component	Designer(s)	Contept models(Yes/No)	Working Model(Yes/No)	Analysis Complete(Yes/No)	Final model(Yes/No)	Jigs Model (Yes/No)	Dawings(Yes/No)	Checked, Checked by, Date	Interface description
Front wheel spindel	Jacob H.	Yes	Yes	No	No	N/A	No	No, No No	A-arms Custom wheel hub Brake line Trun Rod
Front A-arm (top and bottom)	Jacob H.	Yes	Yes	No	No	Yes	No	No, No No	Front Wheel Spindel Front Suspension Frame
Pedals	n Cole, Kevin C	No	No	No	No	No	No	No, No No	Throttle Pedal Brake Pedal Clutch Pedal? Frame
Steering rack	Justin Cole	No	No	No	No	No	No	No, No No	Trun Rod Steering Wheel collom Frame
Seat	Ty Thornton	No	No	No	No	No	No	No, No No	Driver Frame Seat belts
Gear shifter	Kevin Cowey	No	No	No	No	No	No	No, No No	Engine Driver Frame
Engine	Greg Christian	No	No	No	No	No	No	No, No No	Radiator Fuel tank Shifting connection Throttle connection Muffler connection Instruments and Sensors? Wirering
Differential	Greg Christian	No	No	No	No	No	No	No, No No	Engine too Differential mount Dive shafts Brake disk? Frame?
Engine to differential mount	?	No	No	No	No	No	No	No, No No	Engine Differential Frame? Rear Suspension Rear brake caliper Rear A-arms?
Drive shafts	Sam Brunetti	No	No	No	No	No	No	No, No No	Differential Rear Wheel hub
Rear A-arms (top and bottom)	Doug Damron	No	No	No	No	No	No	No, No No	Engine too Differential mount ? Frame? Rear Wheel hub Rear Suspension
Rear wheel hubs	Greg Christian	No	No	No	No	No	No	No, No No	Rear Wheel Rear A-arm Rear Dirve shaft Rear brake caliper? Rear brake disk?
Radiator	?	No	No	No	No	No	No	No, No No	Engine Frame Contoler?
Fuel tank	?	No	No	No	No	No	No	No, No No	Frame Engine
Muffler	Jimmy Fincham	No	No	No	No	No	No	No, No No	Engine Frame
Shocks	Jacob C.?	No	No	No	No	No	No	No, No No	? ? ? ?
Cockpit instruments (analog)	?	No	No	No	No	No	No	No, No No	Speedometer Tackometer Engine temp
Electronic display, sensors and data record (Black box)	Kyle Creegan	No	No	No	No	No	No	No, No No	Cockpit mounted display? sensors?(mph,rpm, ft/s², temp, vib., etc.) Data recorder
Steering wheel	Jacob Curnutte	No	No	No	No	No	No	No, No No	Steering Wheel collom Driver
Front Wheel and rim	Jacob Curnutte	No	No	No	No	No	No	No, No No	Front Wheel Spindel
Rear Wheel and rim	Jacob Curnutte	No	No	No	No	No	No	No, No No	Rear Wheel hub
Frame	?	No	No	No	No	No	No	No, No No	Everything?

talked to	Means of interfacing	To	From	Length of cable/tube run (inches)	Weight (lb)	Special Requirement	Other Comments
Jacob H.	Swivle eye joint	N/A	N/A	N/A			
Jacob H.	custom hex nut	N/A	N/A	N/A			
?	Braded tubing	Brake pedal	Front Brake caliper	?			
?	Swivle eye joint	Steering rack	Front Wheel caliper	?			
Jacob H.	Swivle eye joint	N/A	N/A	N/A			
Jacob C.	Bolt	N/A	N/A	N/A			
?	Bolt	N/A	N/A	N/A		• Must be able to adjust quickly and easily to meet the needs of different drivers	
?	Push pull cable	Engine	Throttle pedal	?		• Associated fluids must be able changed	
?	Braded tubing	Brake caliper	Brake pedal	?		• All adjustments must be accessible	
?	Push pull cable	Engine	Clutch Pedal?	?			
?	Quick relae pins?	N/A	N/A	N/A			
?	Swivle eye joint	Front Wheel caliper	Steering rack	N/A			• Must be fully enclosed by a guard
?	?	Steering Wheel	Steering rack				it to prevent foot entanglement
?	Bolts	N/A	N/A	N/A			
?	Human body	N/A	N/A	N/A			
?	Bolts	N/A	N/A	N/A			
?	Bolt	Seat belt harnis	Frame	?			
?	Linkage	Engine	Shifter	?			
?	Hand	Diver	Shifter	?			
?	?	?	Shifter	?			
?	Hose?	?	?	?			
?	Hose	Engine	Fuel tank	?			
?	Linkage	Shifter	Engine	?			
?	Push pull cable	Throttel Pedal	Engine	N/A			
?	Exaust piping	Muffer	Engine	?			
?	Wirers	?	?	?			
?	wirers	On/Off Key	Engine	?			
Greg	Bolts and Bearings	Engine	Differential	N/A			
Greg	Dog Bone?	Rear Wheel Hub	Differential	N/A			
Greg	?	?	?	N/A			
?	?	?	?	N/A			
?	Bolts	N/A	N/A	N/A			
Greg	Bearing?	N/A	N/A	N/A			
?	?	N/A	N/A	N/A			
Jacob C. ?	Bolts?	N/A	N/A	N/A			
Greg	Bolts	?	?	N/A			
?	Bolts?	Rear Wheel Hub	?	N/A			
Greg	Dog Bone?	Rear Wheel Hub	Differential	N/A			
Greg?	Dog Bone?	Differential	Rear Wheel Hub	N/A			
Greg	Bolts?	?	?	N/A			
?	Bolts?	?	?	N/A			
Greg?	Bolts?	?	?	N/A			
Jacob C.	Bolts?	?	?	N/A			
?	?	N/A	N/A	N/A			
?	Bolts?	?	Rear Wheel Hub	N/A			
Greg	Dog Bone?	Differential	Rear Wheel Hub	N/A			
Greg? Jacob H.?	Bolts?	N/A	Rear Wheel Hub	?			
Greg? Jacob H.?	?	N/A	?	N/A			
?	Hose?	Engine?	Radiator?	?		• Must position to allow proper engine cooling	
?	Bolts?	N/A	N/A	N/A		• Associated fluids must be able changed	• Are we using the same radiator that is on the bike?
?	Wirers?	?	?	?			
?	Bolts?	N/A	N/A	N/A		• On/Off fuel valve must be accessible	
?	Hose	Engine	Fuel tank	?			
?	Exaust piping	Engine	Muffler	?		• Exsalst should be vented away form wheels	
?	Bolts	Frame	N/A	N/A			
?	?	?	?	?			
?	?	?	?	?			
?	?	?	?	?			
?	Panel mount?	?	?	?			
?	Panel mount?	?	?	?			
?	Panel mount?	?	?	?			
?	Panel mount?	?	Data recorder	?			
?	Mounts for each	Data recorder	Sensors	?		• Must be somewhat weather-able and durable	• Could we wrights-up what we need and have the EE department produce it?
?	Mil. Spec connectors?	Sensors	Data recorder	?			
?	Quick relae	Steering rack	Steering Wheel	?			
?	Hands	Driver Arms	Hands	N/A			
Jacob H.	custom hex nut	N/A	N/A	N/A			
Greg?	?	N/A	N/A	N/A			
?	?	?	?	?			• This must have all other parts design before starting this? • Could we have the CE department help us on this?

Example:
(Pedal sub-compontent)

Hatfield		Revision	Description
###		Initial release	N/A

Pedal Parts	Sub-part	Designer(s)	Contept models(Yes/No)	Working Model(Yes/No)	Analysis Complete(Yes/No)	Final model(Yes/No)	Jigs Model (Yes/No)	Dawings(Yes/No)	Checked, Checked by, Date	Interface description
Brake	Brake Pedal	?	No	No	No	No	No	No	No,No,No	Driver foot / Brake base mount
	Brake Cyclinders	?	No	No	No	No	No	No	No,No,No	Brake calipers / Brake base mount
	Brake base mount	?	No	No	No	No	No	No	No,No,No	Brake Pedal / Brake Cyclinders / Pedal mount
Clutch	Clutch pedal	?	No	No	No	No	No	No	No,No,No	Driver foot / Clutch base mount
	Clutch cylinder	?	No	No	No	No	No	No	No,No,No	Slave cylinder / Clutch base mount
	Clutch base mount	?	No	No	No	No	No	No	No,No,No	Clutch pedal / Clutch cylinder / Pedal mount
Throtel	Throtel Pedal	?	No	No	No	No	No	No	No,No,No	Driver foot / Engine control / Throtal base mount
	Throtel base mount	?	No	No	No	No	No	No	No,No,No	Throtal Pedal / Pedal mount
Pedal Mount	Brake	?	No	No	No	No	No	No	No,No,No	Brake too pedal mount
	Clutch	?	No	No	No	No	No	No	No,No,No	Clutch too pedal mount
	Throttel	?	No	No	No	No	No	No	No,No,No	Throtel too pedal mount
	Frame	?	No	No	No	No	No	No	No,No,No	Frame

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talked to	Means of interfacing	To	From	Length of cable/tube run (inches)	Weight (lb)	Special Requirement	Sub-Part Comments	Part-Comments	Pedal Assemblie Comments
?	Friction	N/A	N/A	N/A		• Drivers foot can not slip off pedal, i.e. pedal face needs to be high traction			
?	Bolts	N/A	N/A	N/A					
?	Breaded tubing	Brake calipers	Brake Cyclinders	?		• Brake fluids must be able changed			
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Friction	N/A	N/A	N/A		• Drivers foot can not slip off pedal, i.e. pedal face needs to be high traction			
?	bolts	N/A	N/A	N/A					
Jacob H.	Breaded tubing	Slave cylinder	Clyutch cylinder	?		• hydrolic fluids must be able changed			• Pedals must be quickly and easly adjusted
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					• Throttle, clutch, and brake lines must move with pedals
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Friction	N/A	N/A	N/A					
?	Push/Pull cable	Engine	Throtel Pedal	?					
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Bolts	N/A	N/A	N/A					
?	Quick Releas pins?	N/A	N/A	N/A					

ub assmeble	Sub-part	Designer(s)	Contept models(Yes/No)	Working Model(Yes/No)

Analysis Complete(Yes/No)	Final model(Yes/No)	Jigs Model (Yes/No)	Dawings(Yes/No)

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Part-Comments	your part)Assemblie Comments

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