WBS Element/Personnel		Work Package	SelfiePod - Re Project Manager	1				Other	Work Package Duration (Days)	Work Package Labor (Person Ho
ePod arket Analysis	Project Phase	1.0								
Materials Research Battery Research	Activity Task	1.1								
Battery Types	Task	1.1.1.1								
Lithium Ion Cell Chemistry	Task Task	1.1.1.1.1								
Cathode Materials Anode Materials	Subtask Subtask	1.1.1.1.1.1.1	R R	L L		P P	I		2 2	
Electrolyte Composition	_	1.1.1.1.1.2	R	L		P	I		2	
Form Factor Cylindrical	Task Subtask	1.1.1.1.1.2	R	L		P			2	
Prismatic	Subtask	1.1.1.1.2.2	R	L		Р			2	
Pouch LiFePO4	Subtask Task	1.1.1.1.2.3	R	L		P			2	
Safety Features Thermal Management	Task Subtask	1.1.1.1.2.1	R	L		P	I		2	
Overcharge Protection	Subtask	1.1.1.2.1.2	R	L		P	Ι		2	
Short Circuit Prevention Battery Capacity	Subtask Task	1.1.1.2.1.3	R	L		P	I		2	
Power Requirements Usage Duration	Subtask Subtask	1.1.1.2.1	R R	L L	P P	P P	I		2	
Size Constraints	Subtask	1.1.1.2.2	R	L	1	P	I		2	
Battery Safety Temperature Control	Task Subtask	1.1.1.3	R	L	P	P	I		2	
Protection Circuits	Subtask	1.1.1.3.2	R	L	P	P	I		2	
Certification Requirements Battery Suppliers	Subtask Task	1.1.1.3.3	L	Р		P	1		2	
Vendor Selection Plastic Research	Subtask Task	1.1.1.4.1	L	P			I		2	
Plastic Types	Task	1.1.2.1								
ABS Analysis Impact Resistance	Task Subtask	1.1.2.1.1	R	L		Р			3	
Heat Resistance Cost Analysis	Subtask Subtask	1.1.2.1.1.2	R L	L P		Р	1		3	
Polycarbonate Study	Task	1.1.2.1.2	L	T			1		2	
Durability Tests UV Resistance	Subtask Subtask	1.1.2.1.2.1	R R	L L		P P			3	
Manufacturing Process	Subtask	1.1.2.1.2.3	R	L		P	I		4	
User Needs Analysis Target Audience Research	Activity Task	1.2.1								
Demographics Usage Patterns	Subtask Subtask	1.2.1.1	L L				I	P P	2	
Purchase Behavior	Subtask	1.2.1.3	L				I	P	2	
User Pain Points Current Solutions	Task Subtask	1.2.2	L	P	P		I		2	
Unmet Needs Feature Requests	Subtask Subtask	1.2.2.2	L	P P	P P		I		2	
nild	Phase	2.0	L	1	1		1		2	
Component Sourcing Battery Procurement	Activity Task	2.1								
Supplier Selection	Subtask	2.1.1.1	L	P		P	I		3	
Quality Verification Cost Negotiation	Subtask Subtask	2.1.1.2	R L	L P		Р	I		3	
Electronics Components Component List	Task Subtask	2.1.2	R	I.	P				2	
Supplier Quotes	Subtask	2.1.2.2	L	P			I		3	
Lead Time Analysis Prototype Development	Subtask Activity	2.1.2.3	L	Р			I		2	
Initial Prototype 3D Printing	Task Subtask	2.2.1	R	L		P				
Assembly	Subtask	2.2.1.2	R	L	P	P			4	
Testing Final Prototype	Subtask Task	2.2.1.3	R	Р	Р	L			5	
Production Methods Quality Control	Subtask Subtask	2.2.2.1	L R	P P		P L	I		3	
Documentation	Subtask	2.2.2.3	L	P	P	P	R		3	
Sting Quality Assurance	Phase Activity	3.0								
Component Testing Electrical Testing	Task Task	3.1.1								
Power System	Task	3.1.1.1.1								
Battery Performance Charge Cycles	Task Subtask	3.1.1.1.1.1	R	P		L			5	
Voltage Stability	Subtask	3.1.1.1.1.2	R	P		L			3	
Temperature Profile Circuit Validation	Subtask Task	3.1.1.1.1.3	R	P		L			4	
Signal Integrity EMI Testing	Subtask Subtask	3.1.1.1.2.1 3.1.1.1.2.2	R R	P P	Р	L L			3	
Power Efficiency	Subtask	3.1.1.1.2.3	R	P		L			3	
Control System MCU Validation	Task Task	3.1.1.1.2 3.1.1.1.2.1								
Clock Stability Memory Tests	Subtask Subtask	3.1.1.1.2.1.1 3.1.1.1.2.1.2	R R	P P	P P	L L			2	
Memory Tests Peripheral Tests	Subtask Subtask	3.1.1.1.2.1.2	R R	P P	P P	L L			3	
arketing Digital Marketing	Phase Activity	4.0								
Social Media	Task	4.1.1								
Platform Strategy Instagram Campaign	Task Task	4.1.1.1								
Content Creation Photo Shoots	Task Subtask	4.1.1.1.1.1	R				I	I	3	
Video Production	Subtask	4.1.1.1.1.2	R				I	L	4	
Story Templates Influencer Program	Subtask Task	4.1.1.1.1.3 4.1.1.1.1.2	R				I	L	2	
Selection Criteria	Subtask	4.1.1.1.2.1	L		P		I	P P	2	
Engagement Metrics ROI Analysis	Subtask Subtask	4.1.1.1.2.2 4.1.1.1.2.3	L		P		I	P P	3	
TikTok Strategy Trend Analysis	Task Subtask	4.1.1.1.2 4.1.1.1.2.1	R				I	L	2	
Content Calendar	Subtask	4.1.1.2.2	R				I	L	2	
Performance Metrics oduction & Deployment	Subtask Phase	4.1.1.1.2.3 5.0	R		Р		1	L	2	
Manufacturing Setup Assembly Line Design	Activity Task	5.1 5.1.1								
Automation Systems	Task	5.1.1.1								
Robot Integration End Effector Design	Task Task	5.1.1.1.1 5.1.1.1.1.1								
Gripper Mechanism	Subtask	5.1.1.1.1.1	R	L	P	P			4	
Sensor Integration Control Software	Subtask Subtask	5.1.1.1.1.2 5.1.1.1.1.3	R R	L P	P L	P P			3	
	Task Subtask	5.1.1.1.2 5.1.1.1.2.1	R	P	I	P			3	
Motion Planning Path Optimization	- WOWN	J.1.1.1.2.1	K		L L	P P			4	
Path Optimization Collision Avoidance	Subtask	5.1.1.1.2.2	R	P	L					
Path Optimization	Subtask Subtask Task	5.1.1.1.2.2 5.1.1.1.2.3 5.1.1.1.2	R R	P P	L	P			3	
Path Optimization Collision Avoidance Speed Control	Subtask	5.1.1.1.2.3			L				3	

Project Totals					
Total Items:	120				
Total Phases:	5				
Total Activities:	7				
Total Tasks:	40				
Total Work Packages:	67				
Total Duration (Days):	185				
Total Labor (Hours):	1480				

Key										
L = Lead	P = Participant	R = Reviewer	I = Input	Project	Phase	Activity	Task	Subtask*		
* Subtask rows are colored to match their corresponding level in the WBS diagram										