travel over at least one live communications network. Control and data information can be electronically executed and stored on at least one computer-readable medium. The system can be implemented to execute on at least one computer node in at least one live communications network. Common forms of at least one computer-readable medium can include, for example, but not be limited to, a floppy disk, a flexible disk, a hard disk, magnetic tape, or any other magnetic medium, a compact disk read only memory or any other optical medium, punched cards, paper tape, or any other physical medium with patterns of holes, a random access memory, a programmable read only memory, and erasable programmable read only memory (EPROM), a Flash EPROM, or any other memory chip or cartridge, or any other medium from which a computer can read. Further, the at least one computer readable medium can contain graphs in any form, subject to appropriate licenses where necessary, including, but not limited to, Graphic Interchange Format (GIF), Joint Photographic Experts Group (JPEG), Portable Network Graphics (PNG), Scalable Vector Graphics (SVG), and Tagged Image File Format (TIFF).

[0820] While the present teachings have been described above in terms of specific configurations, it is to be understood that they are not limited to these disclosed configurations. Many modifications and other configurations will come to mind to those skilled in the art to which this pertains, and which are intended to be and are covered by both this disclosure and the appended claims. It is intended that the scope of the present teachings should be determined by proper interpretation and construction of the appended claims and their legal equivalents, as understood by those of skill in the art relying upon the disclosure in this specification and the attached drawings.

1. A system for controlling a mobility device, the mobility device including mobility features, sensors, and a status, the system comprising:

a user interface subsystem receiving user commands and data from, and providing information to, a user, the user interface subsystem including a user command processor processing the received user commands;

a sensor subsystem receiving and processing sensor data from the sensors;

a workflow subsystem filtering the processed received user commands based at least on the status of the mobility device; and

a mobility device command subsystem issuing commands to the mobility features based at least on the filtered processed received user commands and the sensor data.

2. The system as in claim **1** wherein the user interface subsystem comprises:

at least one user input device receiving the user commands and data;

at least one user output device transmitting the information;

at least one power supply port enabling power to the user interface subsystem;

at least one data exchange port enabling data exchange between the user interface device and the mobility device command subsystem; and

at least one armrest mounting means interfacing the user interface system with the mobility device.

3. The system as in claim **2** wherein the at least one user input device comprises a thumbwheel, the thumbwheel providing movement data throughout the full rotation of the thumbwheel and thumbwheel position, the user interface subsystem retaining the thumbwheel position across a power cycle, the thumbwheel position being associated with at least one user interface subsystem characteristic.

4. The system as in claim **2** wherein the at least one armrest mounting means comprises:

a ribbed bracket operably coupling with the at least one armrest mounting means;

a tabbed bracket providing an interface between the ribbed bracket and user interface subsystem, the tabbed bracket including at least one adjustment channel, the position of the user interface subsystem with respect to the mobility device, the tabbed bracket including a recess; and

a spring-activated lever engaging with the recess to hold the tabbed bracket in place.

5. The system as in claim **2** wherein the at least one armrest mounting means comprises:

a receiving plate and a ramped plate surrounding a spring configuration, the receiving plate providing alignment features aligning with alignment features of the ramped plate, the ramped plate including at least one ramp;

an adjustment bracket operably coupled with the user interface subsystem, the adjustment bracket enabling setting of the orientation of the user interface subsystem with respect to the mobility device;

a fitting plate operably coupled with the adjustment bracket, the fitting plate including a first geometry;

a fitting plate receiver resting upon the ramped plate, the fitting plate receiver including a second geometry complementary to the first geometry, the fitting plate receiver receiving the fitting plate,

wherein the fitting plate riding on the at least one ramp compresses the spring, the spring exerts upward pressure on the fitting plate receiver, the upward pressure providing a secure connection between the user interface subsystem and the armrest mounting means.

6. The system as in claim **2** wherein the sensor subsystem comprises:

a sensor suite providing the sensor data, the sensor data indicating obstacles in the path of the mobility device, the commands to the mobility features being based at least in part on the obstacles.

7. The system as in claim **2** wherein the workflow subsystem comprises:

at least one process, the at least one process including commands, the at least one process providing at least one command from the allowed commands to the mobility device, the at least one process being selected based at least on the user commands and the data.

8. The system as in claim **2** wherein the workflow subsystem comprises:

normal workflow including a speed selection, settings selection, seat adjustment selection, and mode selection;

power button workflow including the commands based at least on the status of the power button, the power button workflow including emergency stop and restart to a previous of the status;

stairmode workflow including solo mode stair climbing and assisted mode stair climbing;

forced power off workflow including insuring a power off selection and powering the mobility device off;