i.mobilothon 3.0

The Life-Saving Innovation

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Round 3: Prototype Submission

Source Code

Creating a source code for such a complex and safety-critical system requires extensive knowledge in software development, embedded systems, and real-time communication. This kind of system would be highly regulated and subject to rigorous safety standards. Below is a simplified and high-level pseudocode representation of the logic for the described system:

```
The main py

76  # Main Loop

77  while True:

78  # Simulate periodic checks and actions

79  press_emergency_button()

80  read_medical_sensor_data()

81  analyze_medical_sensor_data()

82  if emergency_button_pressed:

83  take_over_vehicle_control()

84  safely_maneuver_vehicle()

85  transmit_data_to_emergency_services()

86  coordinate_emergency_response()

87  provide_user_feedback()

88  time.sleep(5) # Simulate periodic checks

89
```

This pseudocode provides a simplified overview of the system's logic and the key components involved. In a real-world implementation, we would need to use specific programming languages and libraries for hardware interactions, real-time processing, and safety-critical systems. Additionally, extensive testing, validation, and adherence to safety standards would be crucial for a functional and safe implementation of this idea.