IPRO 308

moto PRO

Objectives:

- Gain insight and understanding of the needs of the motorcycle community.

- Test current technologies and find out if they are suitable for our needs to collect data.

- Find ways to interpret the data gathered in a meaningful and useful manner for both the rider and the mechanic.

- Develop a device for motorcycles that will create a rider profile.

- Aid the rider by providing data that will help correct his or her poor riding habits.

- Inform the rider of potential mechanical issues.

- Enhance the overall riding experience

Special Thanks to:

- IPRO idea shop

- All interviewees

- Illonois Tech Robotics

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moto PRO

- Want to become a better rider?

- Want to learn new skills to enhance your riding experience?

- Want to know if your motorcycle is operating correctly?

What is motoPRO?:

motoPRO is a system to gather and record information from the motorcycle to assist in creating a rider's profile. This profile would then aid the rider by providing useful data to help correct poor riding habits and improve riding skills. The system will also inform the rider of potential mechanical issues and enhance their overall riding experience.

motoPRO will help the mechanic during maintenance intervals by providing data reflecting the rider's habits and maintenance history logs, as well as warn the mechanic of any future problems the motorcycle may encounter.

motoPRO will benefit the manufacturer during the design phase of future products by providing information gathered in the rider profiles and data gathered during the maintenance intervals.

Conclusion:

Identify potential key elements to monitor skill levels of the rider and address their needs and wants.

Analyze the data gathered and interpret into useful information.

Create tools and software to help educate the motorcyclist.

Integration of this device into new motorcycles during manufacturing, will encourage widespread adoption and standardization of the technology.

Future Students:

Students with the following majors are needed for the future of motoPRO

- Computer Engineering
- Computer Information Systems
- Computer Science
- Electrical Engineering
- Mechanical Engineering
- Business
- Architecture
- Physics
- Experienced motorcyclists.