

Ethical, Moral, and Legal Concerns of Using TDERC as a Graduated Licensing Tool for Young Drivers

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Defining Terms

- Teen Driver Electronic Report Card (TDERC)
- Electronic Tracking Devices
- Camera Systems
- GPS
- Data Event Recorder (Black Box)



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Positive Technology Attributes

- Can provide information on an entire crash
- Can keep records of trip locations
- Can keep record of driver errors
- Can provide feedback when errors occur
- Can provide visual feedback of driver performance



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Positive Technology Attributes

- Can encourage young driver to develop acceptable driving habits
- Can develop consistent habit formation
- Can aid in instruction efforts
- An provide a research tool for future education efforts
- Technology is transportable from vehicle to vehicle



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Concerns

- Liability issues in court cases
- Privacy issues
- Technology ownership issues
- Reports are available for any vehicle operator
- Big Brother approach to driver



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Applications

- CarChip device
 - based on using current data retrieval from vehicle computer
 - real time driving records
 - can be downloaded onto personal computer
 - can be watched from website with PIN
 - can be programmed for alerts when unsafe driving occurs
 - fees: 140 basic, 389 real time, 280 GPS and alerts



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Applications



- **Road Safety System**
 - Black Box technology
 - Plugs into OBD-II connector
 - Real time display
 - Personal computer entry
 - Transportable from vehicle to vehicle
 - Cost 280.00

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Applications




- **DriveCam**
 - download events
 - determine liability
 - vehicle damage concerns
 - continuous loop until stopped by event
 - excellent tool for fleet management
- <http://www.drivecam.com/drivecam-videos.asp>

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Research Functions

- Defining acceptable driver performances
- Accurate collision data
- Car malfunction vs driver malfunction
- Support education and training needs
- Track parent-teen training/driving
- Track novice driver risk-taking
- Compare devices for results



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Regulatory Authority



- Easily applied to novice drivers under age 18
 - licensing provisions
 - graduated licensing
 - validate novice driver parental driving efforts
- More difficult for drivers 18 and above
 - Device ownership issues
 - Privacy issues




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Challenges

- Acceptance of technology
- Application to teen drivers and parents
- Fleet systems encourage technology
- Auto manufacturers reluctant to share
- Driver education applications
- Court cases may drive use
- GDL legislative my drive usage

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Driver Education Applications

- **Supervisors**
 - Tracking fleet vehicles on driving routes
 - Collision reconstruction
 - Time management issues
- **Instructor**
 - Real time feedback
 - Review of learning process
 - Evaluation of learning progress
 - developing technology acceptability and parent needs



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Summary

- Understanding role of technology
- Types of technology
- Applications to real world driving
- Positive features of behavior development
- Ownership issues
- Legal concerns
- How does driver education and research benefit



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