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*Design a product or system of products to complement and enhance the parent-child relationship bond during traveling abroad.*

**GENERAL CONTEXT**

In collaboration with Research in Motion, this project aims to develop a digital spyglass for children that is designed to function with and complement the parents' BlackBerry during leisure travel. The spyglass is currently code-named *Peer*.

**USERS**

- Improve security and peace-of-mind of parents by providing 2-way communication between Peer and BlackBerry
- Keep children engaged and entertained using a variety of amusing augmented reality applications, especially during travel
- Expose and enhance BlackBerry media playback, sharing and social networking features.
- Be enjoyable to use and small enough so that children would carry it with them all the time.
- Enable recording memories and experiences for future reference, aid in sharing travel experiences with extended family and friends
- Provide children with fun, media recording technology
- Allow children to play and explore
- Provide a stepping stone to children into the concept of augmented reality the BlackBerry ecosystem
- Enforce brand loyalty of parents and expand BlackBerry value

**HARDWARE**

- Soft touch (rubberized) and durable construction
- Must be available in a variety of colours and colour combinations for personalization and identification- Simple user input, e.g. spin and squeeze navigation
- Use spyglass metaphor for deeper physical interaction than current backlit display technology
- Different attachment methods: lanyard, bracelet, backpack
- Quick release and rubberized straps to minimize strangling hazard

**TECHNOLOGY**

- 802.11 b/g/n Wi-Fi for real-time media sharing and media synchronization
- Bluetooth for zero-configuration networking, device pairing and setup
- 3 or 4 band GSM for SMS service
- 1.5" high resolution, 320-by-320-pixel OLED display with micro lens collimating filter
- 3-axis accelerometer for gesture-based input
- Digital compass for augmented reality applications
- Megapixel camera, microphone for audio and video capture
- Built-in rechargeable Li-ion battery
- Micro-USB for charging, synchronization and software update
- Dedicated graphics processor for real-time image processing

**PEER SOFTWARE**

- Custom-built OS, with Over-the-air updates (Wi-Fi)
- User installable 'applications' for added 3rd party functionality

**BLACKBERRY MYPEER SOFTWARE**

- Manage devices, install new applications
- 'Poke' and 'Panic' messaging to Peers
- Always on to receive notifications for real-time viewing of media

**EXTERNAL ADVISORS**

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