

## 2014 CES INNOVATIONS DESIGN AND ENGINEERING AWARDS

# CATEGORY GUIDE



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#### **NEW! 3D PRINTING & ADDITIVE MANUFACTURING**

3D printers, accessories, software, platforms or any electronic device that facilitates the use of additive manufacturing.

#### **NEW! IN-VEHICLE EXPERIENCE**

Entire OEM vehicles in which the driver/passenger experience is enhanced through the use of electronic components, including, but not limited to, audio/video and entertainment systems, intelligent navigation/maneuvering systems, intelligent cooling and heating systems, heads-up displays, voice control, device connectivity support and integration, and electronic safety components. Vehicles entered in this category are judged based on the quality of the user experience through the use of electronics in the cabin, and NOT on vehicle performance, aesthetics or any other factors.

#### **NEW! WEARABLE TECHNOLOGIES**

Electronic devices typically worn by the user that utilize sensors for navigation, information-gathering, communicating information or other sensory enhancements.

#### **ACCESSIBLE TECHNOLOGIES**

Products that have innovative features that enable ease of use by anyone, including, but not limited to, accessibility for seniors and people with disabilities, regardless of cognitive, hearing, mobility, visual or other impairments.

#### **COMPUTER ACCESSORIES**

Products designed to enable, enhance, connect, power and/or maintain desktop or portable computer systems. Examples include:

- Cables & Connectors
- Carrying Cases
- Computer & Monitor Mounts
- Ergonomics Products
- Mobile Computing Accessories
- Monitor Glare/Privacy Filters
- Mouse Pads
- Power Adapters
- Security Products
- Storage Products

#### **COMPUTER HARDWARE & COMPONENTS**

All desktop and notebook computer systems, as well as their internal components, EXCEPT for tablets and e-readers, which have their own category. Examples include:

- Desktop Computers
- Notebook Computers
- CPUs/Processors
- Computer Cases/Enclosures
- Fans & Heatsinks

- Graphics & TV Tuner Cards
- Internal Hard Drives & Storage
- Internal Disc Drives
- Memory (RAM)
- Motherboards
- PCI Cards
- Other Internal PC Components

#### **COMPUTER PERIPHERALS**

Products designed to connect to and extend the functionality of desktop or portable computer systems. Examples include (but are not limited to) products that provide printing, networking, user input and display, as well as the following:

- Backup Devices
- Computer Speaker Systems
- Data Projectors
- Expansion Docks & Adapters
- External Disc & Hard Drives
- Hubs and Converters
- Keyboards
- Mice & Pointing Devices
- Microphones
- Monitors & Displays
- Portable Data Transfer Cards/Devices
- Printers, Copiers and All-In-One Units
- Scanners
- Uninterruptible Power Supplies (UPS)
- Webcams

#### **DIGITAL IMAGING**

Products designed to enhance the visual experience and/or allow the user to capture, store and edit still images or video. Examples include:

- Binoculars
- Cables
- Camcorders & Accessories
- Cameras (All: Point & Shoot, DSLR, Professional, Action, Waterproof, etc)
- Carrying Cases & Mounts
- Flash Units & Lights
- Lenses (All: DSLR, Video, etc)
- Photo Backup Devices
- Photo Printers
- Photo Display Devices
- Photo Sharing Tools
- Photo Scanners
- Tripods
- Other Digital Imaging Accessories



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### ECO-DESIGN AND SUSTAINABLE TECHNOLOGIES

Innovative features incorporated into consumer electronics products that make them safe for the environment, e.g., efficient and clean energy use; manufacturing processes that reduce use of environmentally relevant substances (e.g., lead, mercury); durability/end-of-life (reuse, refurbish, remanufacture, recycle); resource conservation.

### EMBEDDED TECHNOLOGIES

Silicon chips and integrated components designed to provide functionality to finished products or subassemblies. Examples include:

- Chips
- Electronic Components
- Enabling Technologies
- Integrated Circuits
- Internal components that improve a product's performance
- Embedded Memory
- Non-PC Processors

### GAMING HARDWARE & ACCESSORIES

Products (hardware) designed to allow one or more users to interact with electronic games. Examples include:

- Carrying Cases
- Controllers, Joysticks, & Input Devices
- Cords and Cables
- Gaming Consoles/Systems
- Handheld Gaming Systems & Accessories
- Memory Upgrades
- Motion-sensing Interfaces
- Network Connectivity Accessories
- 3D Gaming Hardware

### HEADPHONES

Devices that allow users to listen to audio content, such as music, radio, video, TV, gaming and/or telephone conversations. The devices may incorporate microphones for user voice response or input, and do not have to be designed for use with any specific type of device. Examples include:

- Custom or Form-fitting Headphones
- DJ Headphones
- Earbuds
- Earpieces
- Headsets
- Wired & Wireless Computer Headphones

### HEALTH & FITNESS

Products designed to test, monitor, or analyze the health, well-being, fitness and/or medical condition of an individual or provide therapeutic benefit. Products must have significant electronic functionality as a central part of the item's operation. Examples include:

- Aesthetics Equipment (Obesity/Weight; Cosmetic, etc.)
- Cellular phone applications to monitor, diagnose, and/or assist medically
- Body Composition Monitors (Home; Professional)
- Fitness & Workout Products
- Hand-held Health Monitoring Devices
- Medication Monitors/Distributors
- Mobility Aids
- Personal Safety Devices
- Remote Monitoring Devices
- Scales (Home; Medical; Veterinary; Food Service)
- Therapeutic Equipment (Pain Relief, Physiotherapy, Sports/Rehab)
- Vision & Hearing Products
- Other Health/Wellness Products & Devices

### HIGH-PERFORMANCE HOME AUDIO/VIDEO

Separate audio components and speakers that provide for optimal performance and sound reproduction. Items are typically produced in limited quantities and are often handcrafted. Examples include:

- Amplifiers
- Audio Players
- Equalizers
- Preamplifiers
- Receivers
- Signal Modification Devices
- Speakers
- Tuners
- Other High Performance Home Audio Devices



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### HOME APPLIANCES

Products that have a primary function of being used in the home. These products include both major and portable appliances, and may provide home heating and cooling, comfort, aesthetics, convenience, food storage and preparation, and/or cleaning. Products should have significant electronic functionality as a central part of the item's operation. Examples include:

- Air Conditioners
- Air Treatment
- Clothes Washers and Dryers
- Cooking Ventilation Equipment
- Dehumidifiers
- Dishwashers
- Garbage Disposal
- Microwave Ovens
- Mixers
- Powered Sweepers
- Ranges and Ovens
- Refrigerators
- Telephones
- Vacuum Cleaners

### HOME AUDIO/VIDEO ACCESSORIES

Products designed to enable, enhance, connect, and/or maintain home audio/video systems and components. Examples include:

- A/V Calibration Devices
- Antennas
- Cables/Wires
- Connectors
- Content Management Devices
- Installation Products
- Microphones
- Mounting Equipment/Brackets
- Power Management Devices
- Remote Controls
- Storage Products
- Television/Speaker Mounts & Stands

### HOME AUDIO/VIDEO COMPONENTS

Systems or components designed to provide playback, storage, and/or distribution of video signals and content in the home. Examples include:

- Amplifiers & Preamps
- Audio/Video Disc Players & Changers
- Digital/Personal Video Recorders (DVR, PVR)
- Digital Sound Processors
- DJ Equipment
- Equalizers
- Home-Based Internet or Satellite Audio Devices
- Mixing Boards
- Professional Audio Systems
- Rack Systems

- Receivers
- Set-top Boxes
- Tuners
- Turntables

### HOME NETWORKING & CONNECTIVITY

Products and accessories that enable users to maintain a wired or wireless data network, with the most typical applications being file, print and internet access sharing. Systems may also include products and software that provide for remote or conditional access. Examples include:

- Cable & Wiring Systems
- Energy Management/HVAC Systems
- Ethernet, Phone & Power Line Based Networking Systems
- Modems, Routers & Wireless Access Points
- Home Security Monitoring/Installation Services
- Intercom/Telephone Systems
- Internet-Based Audio Devices
- Lighting & Window Control Systems
- Media Servers & Multimedia Control Centers
- Multi-room Audio/Video Products & Systems
- Network Audio/Video Delivery Devices
- Remote Control Systems
- Residential Gateway Products
- Residential Gateways
- Video Surveillance Systems
- Whole House Systems

### HOME THEATER SPEAKERS

Speakers with the primary purpose of incorporation into a home theater system. Examples include:

- All-in-one Speaker Packages
- Bookshelf
- Center Channel
- Digital Sound Projectors
- Flat
- Floor
- In-wall & In-ceiling
- Outdoor
- Speaker Systems
- Subwoofers
- Surround Sound Speakers
- Wireless



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### IN-VEHICLE ACCESSORIES/CONTROL/NAVIGATION

Products, components, and accessories designed to be part of an in-car navigation, information retrieval or transmission service, or enable, enhance, connect, or maintain any in-vehicle audio, video or navigation system. Examples include:

- Adapters
- Alarms and Remote Start Systems
- Antennas
- Bluetooth & Mobile Device Integration
- Cables & Wiring
- In-Vehicle GPS/Navigation Devices
- Installation Kits and Accessories
- Insulation
- Intelligent Transportation Systems
- Marine A/V Accessories
- Marine Depth & Navigation Technologies
- Mounting Products
- Radar Detection
- Security Devices

### IN-VEHICLE AUDIO/VIDEO

Products and components designed to be part of an in-vehicle audio and video system. Examples include:

- Amplifiers
- Capacitors
- Crossovers
- Digital Media Interfaces
- Disc Changers
- DVD/Blu-ray Players
- DVD/Blu-ray Display Systems
- Equalizers
- HD/Satellite Radio Receivers
- Head Units
- In-dash Displays
- Marine A/V Products
- Speakers

### PORTABLE MEDIA PLAYERS & ACCESSORIES

Products incorporating integrated storage and playback capability for audio and/or video content, as well as the accessories for enabling, enhancing, connecting, carrying, and/or maintaining them. Examples include:

- Audio Devices
- Audio System Components
- Carrying Cases
- Chargers/Adapters
- DVD Player
- eBook readers
- Home Video
- Media Receivers
- MP3 Players
- Portable Media Storage

- Satellite Radio
- Video Devices
- Video Player

### PORTABLE POWER

Devices designed to facilitate the powering and/or charging of consumer electronic products. Examples include:

- Battery Chargers
- Lithium Batteries
- Other Supplemental Power Systems
- Power Adapters
- Power Inverters
- Rapid Chargers

### SOFTWARE & MOBILE APPS

Programs or operating systems meant to be used on a computer system or mobile device, whether being distributed for free or at a cost. Examples include:

- Windows Software
- Mac Software
- Linux Software
- Android Mobile and Tablet Apps
- Blackberry Mobile and Tablet Apps
- iOS Mobile and Tablet Apps
- Other Computer Software
- Other Mobile Device Applications

### TABLETS, E-READERS & MOBILE COMPUTING

Any and all devices that utilize a tablet form-factor, products whose primary function is the display and reading of documents, or any mobile computing system whose features enable enhanced portability. Examples include:

- Electronic Reading Devices
- Hand-held Computer Systems
- Mobile Computing Systems
- Ultra-Mobile Portable PCs

### TECH FOR A BETTER WORLD

Products that share a common goal or ability to impact the world in a positive way, whether domestically, or on a faraway corner of the globe.



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### VIDEO DISPLAYS

Devices whose primary purpose is the display of video content, excluding items marketed and sold primarily as computer monitors. Examples include:

- 3-D Display Technology
- DLP Displays
- Flat Panel Displays (All Types)
- LCOS Displays
- OLED Displays
- Multi-Function Televisions
- Projectors
- Televisions (Projection, DLP, Smart, Plasma, LCD, etc)
- Other Video Displays

### WIRELESS HANDSET ACCESSORIES

Products designed to enable, enhance, connect, carry, and/or maintain wireless handsets. Examples include:

- Antennas
- Battery Packs & Supplemental Power Systems
- Cables
- Carrying Cases
- Chargers/Adapters
- Earpieces/Headsets
- Faceplates/Skins
- Memory Cards
- Mobile Device Camera Accessories
- Mounting Hardware & Holders
- Other Wireless Phone Accessories

### WIRELESS HANDSETS

Items marketed primarily for the ability to provide wireless calling capability. The products in this category, in addition to having voice calling features, may also incorporate wireless data and internet access features along with built-in camera and media playback functionality. Examples include:

- Mobile Phones
- PDA's
- Smart Phones
- Two-Way Radios
- Wireless Email/Phone Devices