



BCAA IS AN INTERACTIVE DESIGN AGENCY SPECIALIZED IN RICH USER EXPERIENCES, WHICH PEOPLE CAN UNIQUELY IMMERSE INTO, UNDERSTAND & ENJOY

Established in 2007 by Mirko Arcese, BCAA integrates strategy, design and engineering to build human-centered interactive experiences.

Company Profile

BCAA is a company whose main objective is to realize interactive solutions, products able to place human being at the center of every system, in the most intuitive and natural way, crystallizing every functionality in the hardware-software mechanics, thus leaving the human element free to interact without having to interpret machine language.

Our approach has led, over the past 12 years, to invest totally in research and development, from motion capture to artificial intelligence, passing through every necessary challenge. What we realize is the materialisation of an idea, the idea is the solution to a need, the need often requires a creative process to be identified.

BCAA has developed solutions for museums, permanent installations and interactive creations of different types, supporting both the private sector and public administrations, in Italy, Europe, USA, Russia, UAE and UK, boasting a broad spectrum portfolio: from BLOOD, interactive dance show realized for the Royal Opera House London, to the realization of digitalisation toolset for the Ministry of Internal Affairs of Abu Dhabi.

How We Act



Every single project starts from imagining something new, different, stimulating and sursprising.



/Explore

From ideas to technologies, exploring different pieces to build up new Brainware



/Create

We melt together ideas, desires, technologies and imagination to create a tailor-made solution



/Refine

Software, Hardware and Brainware are mixed together within a refined process to let artwork shine



/Deliver

Creation is delivered, installed, tested, played and enjoyed with pleasure by both customer and our team

"A master in the art of living draws no sharp distinction between his work and his play; his labor and his leisure; his mind and his body; his education and his recreation. He hardly knows which is which. He simply pursues his vision of excellence through whatever he is doing, and leaves others to determine whether he is working or playing.

To himself, he always appears to be doing both"

What We Deliver

BCAA OPERATES, USING SPECIFIC, BUT ALWAYS INTEGRATED, TEAMS, IN THE FOLLOWING SECTORS

01 · Brand Activation

02 · Interaction Design

03 · Digitized Reality

04 · Augmented Performances

05 · Smart Interiors

06 · Social Interaction

07 · Edutainment

01/ BRAND ACTIVATION

Brand Activations takes attendees engagement to the next level, as a novel way to engage audience and enhance the event experience.

Here Today, Dubai Tomorrow

/Description:

Dubai Tourism launched the "largest ever" experiential activation at London's Waterloo station.

The campaign featured interactive 360° gaming, virtual reality experiences and optical illusions, which show Dubai's iconic mirage-like characters on the concourse: from skydivers and camels to scuba divers and falconers.

BCAA realized the entertainment toolset and a data management system in order to collect and synchronize data, deliver prizes and connect website to onsite installations.





Dubai Department of Tourism and Commerce

/Agency:

Edelman DABO

/Tags:

Virtual Reality, Optical Illusion, Social Gaming, On-line Contest, Big Data Management





Always in beta

/Description:

New Balance asked us to conceive and deploy an in-store activation for the launch of their new product: "Fresh Foam 1080 Limited Edition".

We employed fitness tracker sensors and kinect motion capture in order to analyze guests biometrics and generate a real-time 3D art depiction of their body along the lines of the main concept "Always In Beta".

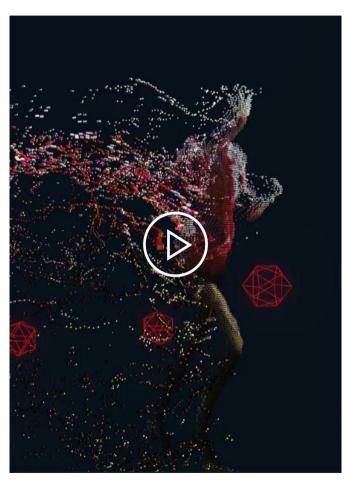
Graphics and audio, generated in real time, gave the guests a unique and remarkable experience, where - while running - they created "fitness art" through millions of dancing particles.

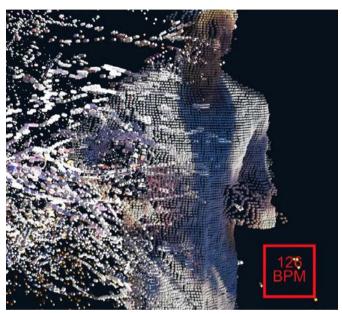


/Agency: RealLife TV

/Tags:

Generative Art, Motion Capture, Biometrics







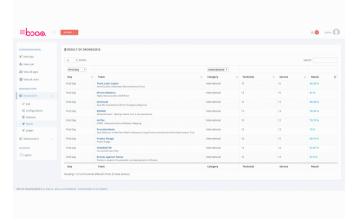
Drones & Robotics For Goods

/Description:

With BCAA voting system for "Drones For Goods" and "Robotics for Goods" awards the judges could vote using a dedicated web-app, while direction managed all data and display results for partial, semifinals and finals, integrating seamlessly with the whole direction flow with a web front-end where organizers were able to check in real-time the voting process making sure all entries were verified and timestamped correctly, while monitoring the data flow using their administrative credentials over our SSL encrypted cloud server.







/Client:

Dubai Future Foundation

/Agency:

Prisme International

/Tags:

Social Interaction, Data Driven Contents, Big Data Management

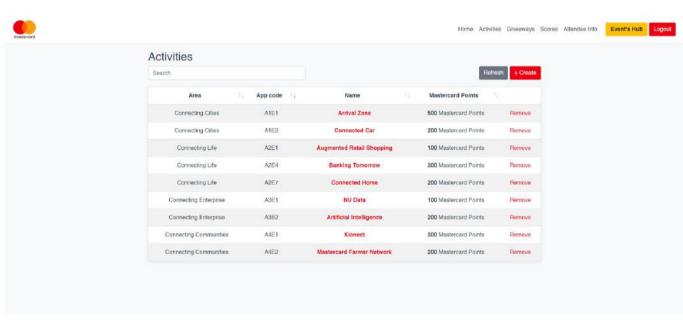
Mastercard Connecting Tomorrow

/Description:

The "Connecting Tomorrow" event in Barcelona, gave us the opportunity to develop a solution to support the gamification activities of the event.

Guests were motivated to explore all the demos by gaining points in case they completed activities inside dedicated areas. They could later spend those points to get merchandising products from the dedicated counter. Our mobile app, scanned and collected the guest unique ID, time and type of activity completed and finally stored this event into our cloud based system.

A web based dashboard displayed daily stats on most active guests and gave the possibility to spend the points earned in the gift e-shop.





/Agency: CasaMilan

/Tags:

Gamification, Social Interaction, Big Data Platform







Dress On Dress - Diesel

/Description:

"Dress On Dress" is a Diesel tour which aims to introduce a "WOW factor" into the italian firm's branded events. The client brief was "to surprise guests while communicating their brand and showcase their product in a novel way".

BCAA realized mannequins interactive video mapping to show concepts and a new fashion line, plus an interactive augmented performing installation which is intended to let people play inside immersive audio-video environment, featuring a show performed by artist.









/Client: Diesel

/Agency:

PRY /Tags:

Interactive Video Mapping, Motion Capture, Generative Art

BMW Mini

/Description:

For the launch of new BMW Mini, we had an ambitious brief to fulfill: stimulate guests through direct participation, add new followers to the Mini facebook page while underline the new "social network mood" of the BMW iconic car.

BCAA developed a custom software solution connected to the brand Facebook page, where event guests could post status updates, comments and "selfies". A tailor-made content filter tools allowed a moderator to filter user-generated content. Finally a set of 3D real time layout were able to render those contents, becoming event's scenography.







/Agency: Fonema

/Tags:

Social Interaction, Real Time Generated Contents, Projection Mapping



Nido Star

/Description:

For Nido Star middle-east campaign BCAA delivered a touchscreen user experience: three smart games targeting 6-12 years old guests, giving product insights to parents and brand overview to the client.

The activation has been deployed in three countries and spreaded in several points of interest, exceeding the client's expectations in term of user engagement and positive feedback. Fully replicable, all software instances were connected through online dashboard in order to give remote assistance and handle profiles data and localized insights.



/Client: Nestlé MENA

/Agency:

Prisme International

/Tags:

Experiential Marketing, Big Data Platform, Gaming







02/ INTERACTION DESIGN

Interaction Design is the practice of designing interactive digital products, environments, systems and services. The main area of interest is based on human behavior and the realization of methods that allow interaction between human beings and analog / digital contents in a creative and innovative way.

Chiesi 2019

/Description:

Our team designed and created the entire interactive communication for the chiesi pharmaceutical booth on the occasion of the ERS 2019 in Madrid, translating medical language into edutainment tools using advanced technologies to exploit the digital world through an analog approach, with the aim of focusing the attention of a very specific audience









/Client:

Chiesi

/Agency:

Merlo

/Tags:

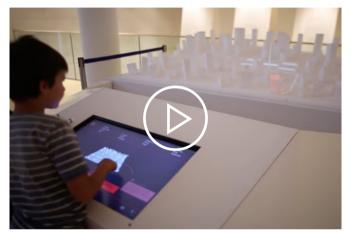
Exposition, Interactive Contents, Tactile Media

Telecom Muse

/Description:

For the opening of the Muse Museo delle Scienze in Trento, designed by Renzo Piano, BCAA delivered a set of nine installations to underline the concepts of Creative Agorà, Smart Cities and Hyperculture, promoted by national company Telecom.

Our job resulted in a fully immersive path, Involving visitors of all ages, with particular attention to younger audience.









/Client:

Telecom Italia

/Agency:

Fonema

/Tags:

Museum, Edutainment, Interactive Video Mapping

Enel Red October

/Description:

BCAA realized interactive environments and installations at ENEL Expo in Red October Gallery, Moscow.

Eleven installations were conceived to explain and interact with the concept of SmartGrids, and featured custom motion capture system, face tracking and audio/video interactive contents.

The whole exposition was developed considering multilanguage needings and a peculiar contents info path.









/Client:

Enel

/Agency:

Fonema

/Tags:

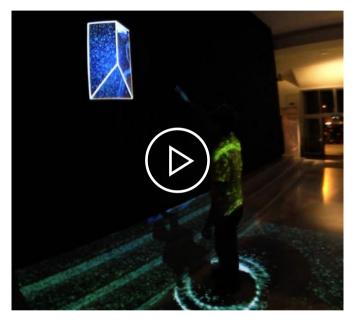
Motion Capture, Permanent Exposition, Natural User Interfaces

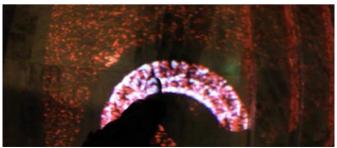
3DOM

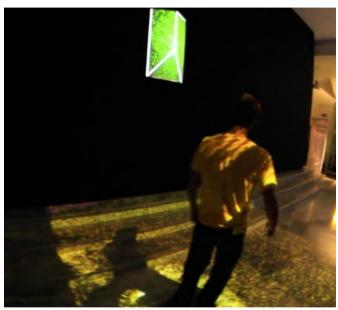
/Description:

3DOM is a system capable of interpreting the human body in its movements, transforming guest into optical projections, sound vibrations, and interactive audio-visual stimuli.

An interactive space designed for the human body experience, where the presence and movement are both generative and cognitive.









/Client: Digital Life 2

/Agency: BCAA

/Tags:

Museum, Generative Art, Motion Capture, Realtime AV

Bocconi Expo

/Description:

BCAA realized several interactive installations for the ENEL Expo in Milan.

Placed at Bocconi University, installations are aimed to talk about SmartGrids and Energy history, through an intuitive walking path and simple yet effective interaction designs.







/Client:

Enel

/Agency:

Fonema

/Tags:

Exposition, Realtime AV, Natural User Interfaces

Big Blue

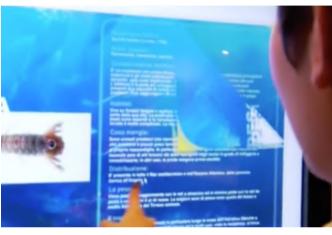
/Description:

BCAA designed and realized an interactive space where visitors had the chance to interact with a detailed mediterranean environment, fully rendered real-time.

A 90 meters wide realtime 3D environment surrounded the area, while multi-touch devices proposing educational contents were developed to engage a younger audience.









/Client: Unioncamere

/Agency: BCAA

/Tags:

Exposition, Edutainment, Realtime AV

03/ DIGITIZED REALITY

The digitized reality represents a set of techniques such as virtual, augmented and mixed reality. Our specialized team designs and provides interactive solutions that can create synthetic environments, enrich reality with digital elements, or mix the methods mentioned. The shared goal is always the same: to place the user as the protagonist of a rich and engaging experience, in which technology allows to achieve the objectives through totally natural human actions.

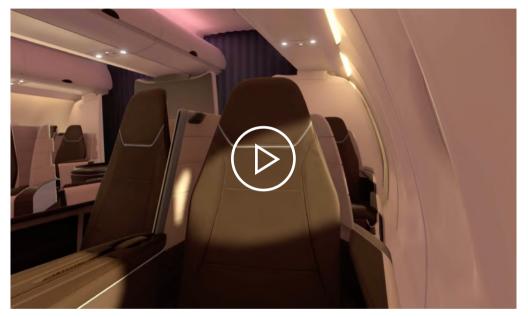
Hawaiian Virtual Reveal

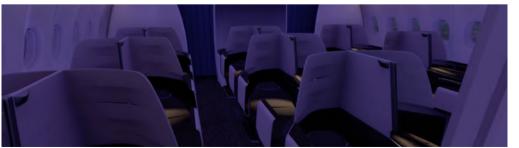
/Description:

In partnership with GOOOD.it, BCAA realized this ambitious virtual reality project for Hawaiian Airlines.

More than 12 months of research and 20 people involved, 9 weeks of tests, hundreds of 3D elements, thousands of hours to process the data in order to perfectly previsualize the most innovative cabin in every detail.

A realistic and immersive experience, allowing designers and engineers to visualise, interact and design the new Hawaiian Airlines first class experience.









Hawaiian Airlines

/Agency:

/Tags:

Virtual Reality, Realistic Lighting, Coop Platform

Flight Experience

/Description:

Flight Experience is a virtual reality interactive experience available at the Naples International Airport.

The project started around the idea of a full immersive flight experience able to showcase the Neapolitan territory, involving sponsors and local terminal facilities, including a toolset to benchmark and analyze customers behaviour and satisfaction.

Available on both VR headsets and mobile phones, the project frontend allows the client to add geo-localised 3D models and video assets inside the flight experience, allowing the adoption of new sponsor or entity of interest without any rework.









/Client:

Naples International Airport

/Agency: BCAA

/Tags:

Virtual Reality, Experiential Marketing, Big Data Integration

MySport VR

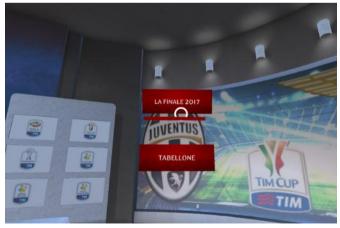
/Description:

The project realized by BCAA in collaboration with Round4U has the objective to realize an application able to enrich the viewing of soccer matches, supplying contents and interaction together with virtual reality tools and specific streaming services.

The user can view live soccer matches using VR headset, following the sporting events inside a lounge that maximizes the immersivity, also offering various supplementary contents. Users can also follow the action camera and choose to "move" to a bench or behind the soccer goals obtaining the live streaming of that specific position.







/Client:

Eleven Sport

/Agency:

Round4U

/Tags:

Virtual Reality, Video streaming, Real-Time Data Integration

Jeep Offroad Territories

/Description:

Jeep had a unique challenge: avoid physical test-drive in their showrooms while giving the end-user an immersive and realistic driving experience, showcasing top level cars.

BCAA realised 360° footages recorded with a professional driver on a pro track. Customer could choose where to "drive" and choose actions to be applied in different conditions, while a "picture in picture" display explained the vehicle's features contextually. This VR deployment was updatable and manageable by a web application, in order to update its contents when new car models get into market.







/Client:

Jeep

/Agency:

Xister, OSC Innovation

/Tags:

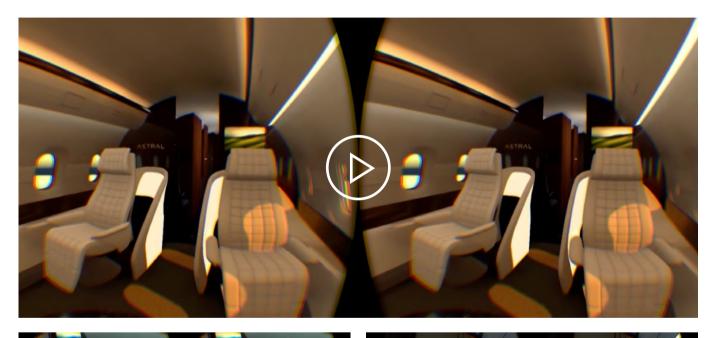
Virtual Reality, 360 Interactive Video, Data Driven Contents

Yasava Ebace 2015

/Description:

For its new AianaWave Jet interior design, showcased at EBACE2016 in Geneva, Yasava asked BCAA to build a VR interactive experience, able to show the jet interior during a whole trip, considering night time and all possible options.

Customers are immersed in a 1:1 spatial environment, fully interactive, thanks to realtime lighting and natural user interface, following their hands gestures, customizing their journey within an amazing and stylish jet interior.







/Client:

Yasava

/Agency:

Asana

/Tags:

Virtual Reality, Previz, Realitme Lightning, Customizable Evnironment

Coop

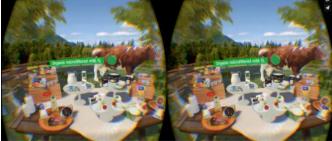
/Description:

In collaboration with the client's internal media agency, BCAA realized a virtual store, showcased at EXPO 2015. This is the agency's first outcome of R&D on VR and Leap (hand gesture recognition) technologies integration.

We hence developed an ergonomic user interface with positional audio, allowing the users to "touch & know" the product line within the digital store, setting the bar for future COOP virtual market experiences.







/Client: Coop

/Agency:

Accenture, OSC Innovation

/Tags:

Virtual Reality, Exposition, Natural User Interfaces

04/

AUGMENTED PERFORMANCES

Augmented Performance increases the expressive range of possibilities for the artists and lengthens the grammar of the traditional, in a search towards the musical and graphic increase of human movement. BCAA develops similar solutions for 15 years, in the constant search for unique models that enhance first of all the artistic concept rather then the technological one.

Blood

/Description:

BCAA realized a fully interactive stage for this spectacular show, initially staged at London's Royal Opera House, where Gilbert&George images are translated into a real time graphics flow.

Jean Abreau's movement are scanned by a double motion capture setup, with every move of the performer translating into an interactive audio-video environment, leading to a unique result on every performance.

'The digitally manipulated visual effects are mesmerising... Abreu's charisma is impressive.'







JAD, London Art Council

/Agency: BCAA

/Tags:

Motion Capture. Generative Art, Realtime AV, Immersive Stage





Tierra Rendez Vous

/Description:

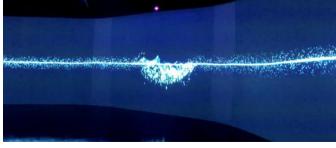
As it was defined by our client: "Realtime_TechnoArt_ Experience". Purpose of this show/installation was to give an alive entity to a 360 projected showroom.

We realized an digital environment able to generate video and synthesize music reading human body expressions, delivering a show which tell the story of meeting between performer and machine.

The show was repeated several time during an event to be enjoined by small group of guest, at the end of performance, every guest had the chance to experience the artistic Al created entering the stage switching from a spectator point of view to a protagonist position.







/Client:

Tierra Telematics

/Agency:

Saywhat

/Tags:

Generative Art, Transmedia, Motion Capture, Expeimental Dance

Qooopa

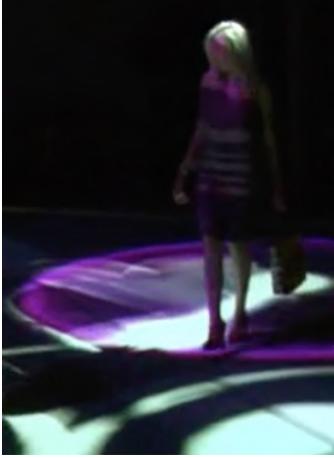
/Description:

QOOOPA is an audio/video interactive installation, able to synthesize music by analyzing the guests spatial relationships like position, distance, acceleration and angles, thus generating and projecting an immersive video environment.

The installation is divided into two parts, melodic and rhythmical, alternated every sixty minutes, exploring multiple aspects of music generation.







/Client: Roma Creativa

/Agency: BCAA

/Tags:

Generative Art, Human Step Sequencer, Realtime AV, Hi-Tech-Arts

05/ SMART INTERIORS

The combination of technology, architectural design and design creativity has led us to create interactive solutions both physically and digitally. We call smart interior a physical object steeped in digital technology and therefore able to be intelligible and interactive.

Shanarà

/Description:

BCAA designed and realized an interactive, custom size/shape, table for Shanarà, a new brand bar in Rome: an exclusive venue with walls made up of marine salt.

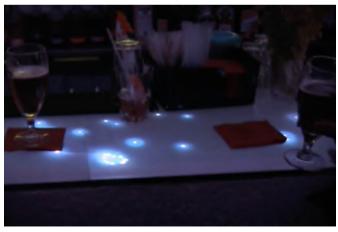
Over 7 meters wide, the I-Bar matches the environment lights in order to get a full style match.

BCAA managed both digital and masonry and delivered a fully integrated interactive bar table which became the venue's distinctive feature.









/Client: Shanarà

/Agency: BCAA

/Tags:

Digital Masonry, Generative Art, Lights Management

Social Cave

/Description:

The Social Cave is an interactive installation developed by twentyfour international students of the Research Lab Non-Linear Solution Unit.

Using the latest 3D motion capture technology the application "reads" human behaviours combining two different stages into one virtual space: the wall physical limit becoming the interactive social scene.

The installation explores the idea of socialization into the contemporary age by reinterpreting the notions of physical and digital meeting.









/Client:

Salone Del Mobile Milano

/Agency:

Columbia University

/Tags:

Generative Art, Social Interaction, DigiPhysical Space

Oracle

/Description:

Oracle prototype has been engineered and realized by BCAA for the multimedia artist Luca Pozzi and deployed at the Grimmuseum in Berlin.

Optical space-time information are transferred through the web to translate ultraviolet painting into destination portal.







/Tags:

DigiPhysical Installation, Transmedia Art, Realtime Data Management





06/ SOCIAL INTERACTION

Nowadays every presence and action during public events or congresses becomes important when shared through social networks or any platform able to correlate images or comments in a customized environment. BCAA goes beyond the integration of pre-existing models, creating customized solutions that can effectively maximize the content and style of a social interchange system.

Abu Dhabi Awards

/Description:

UAE Executive Affairs Authority launched a nomination award campaign to reward citizens who have created a positive impact on the Abu Dhabi community.

BCAA developed a multi-channel data collector, allowing usage of interactive totems, mobile apps, online nomination and physical format digitisation, in order to manage data within a dedicated online tool.

System allows multiple reporting options based on daily, weekly, monthly and final reporting, offering a detailed overview of nominator stats, moreover the solution implements several validation tools, avoiding irregular nominations, and data conformity.



UAE Executive Affair Authority

/Agency:

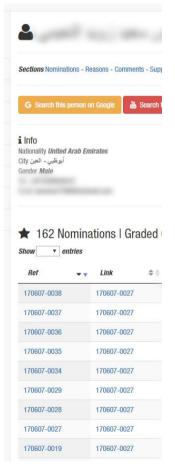
Edelman DABO

/Tags:

Big Data Management, MultiPlatform Management, Data Flow Smartisation







Telecom Interactive Agorà

/Description:

In order to allow event's guests to interact with actors and stage, we built a webapp based live tool to give the hosts responsive feedback and interaction, performing real time polls and votations, thus creating the opportunity for moderators to introduce the guest comments as topic.

The whole system is managed with a Direction application, allowing moderation and featuring socials integrations, such as Facebook and Twitter.







Telecom Italia

/Agency:

Fonema

/Tags:

Interaction Design, Social Interaction, Conference, Moderation, Social Media





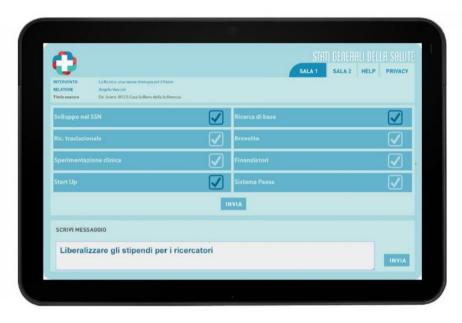


Scenatior

/Description:

Health Forum is a health themed international convention which take place at Rome Auditorium Hall "Parco della Musica" every 2 years. It hosts more than two thousand guests with twenty discussion panels.

BCAA solution allowed guests, who connected to the internal wifi, to be automatically redirected on the event's web app, receiving informations around the schedule and the current talk, answering polls in real-time, posing questions, animating the talk and contributing to an interactive guest profile infographic, projected on-screen. Social interaction created represented a step forward to in deep info exchange and guest integration within event.





Ministero della Salute

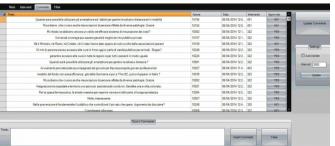
/Agency: GOOOD

/Tags:

Social Interaction, Big Data Management, Event Smartisation







07/ EDUTAINMENT

Education and entertainment intersect frequently, giving rise to a special mix that immerses educational and informational content in a form of entertainment and play, creating new models of learning and information.

Trenopoli

/Description:

Trenopoli is a fantasy city we build around an edutainment interactive game designed for a teenagers audience, main purpose it's to teach about the advantages of train transportations and the consequent reduction of CO2 emissions.

Using LeapMotion to track hands movement, guests can relocate the game characters towards "eco-friendly" destinations, in a simcity like environment.











Trenitalia

/Agency:

Digital Tribe

/Tags:

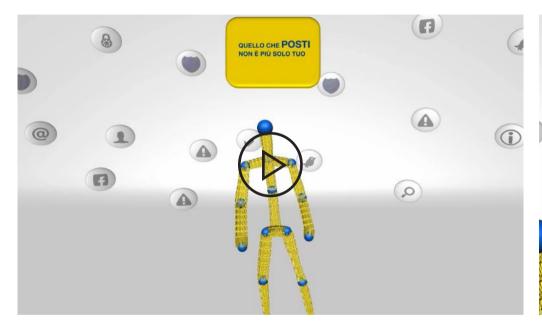
Brand Gamification, Natural User Interface, 3D Real-Time

Poste@MakerFaire

/Description:

Poste Italiane needed an interactive activation to engage a younger audience in order to improve their awareness on themes like Privacy, Social Networks, Internet Security.

BCAA developed the project from concept to execution, immersing the kids in a virtual "cyberspace" while communicating the key concepts of the campaign.







I Colori Di Giotto

/Description:

"I Colori di Giotto" interactive room was designed and built to offer a unique experience of the Italian painter's "La regola".

Starting from the original art piece, BCAA has built the scene in 3 dimensions, realizing a "live" version of the painting, where characters are animated, perspective is "corrected" and the meeting between San Francesco and Innocenzo III can be experienced in a 1:1 scale.

A smart motion capture system let the audience control the view angle, zoom and perspective adjustment, giving users full control over the immersive 3d painting











/Client: CNR-ITABC

/Agency:

Museo Fumentario

/Tags:

Cultural Heritage, Realtime AV, Motion Capture

Eroski

/Description:

BCAA designed and realized this interactive game for Eroski, one of the leading spanish supermarket chains.

Based on nutritional facts related to off the shelf products, the game features database connections, e-mail integration, online statistics and facebook integration.

Installation was activated concurrently in 100 different, producing a huge data set: a powerful customer profiling tool for the client.









/Client:

Eroski

/Agency:

Vilau Media

/Tags:

Edutainment, Big Data Managemen, Motion Capture

Musei Vaticani

/Description:

Meant to be a touring activation, the Musei Vaticani Interactive area consists of three separate installations, giving visitors a chance to experience some of the Vatican Museum areas which are close to the public.







/Client:

Musei Vaticani

/Agency: AV Set

/Tags:

Cultural Heritage, Realtime AV, Motion Capture

Let Us Hear About You

