



ADVERTISING CASE STUDY



**brainfood**

Innovative convergence of business strategy,  
creative thinking, and new technology

## AR/VR LEVERAGED IN CREATION OF VIDEOS



**fabcom**  
integrated strategic marketing

# LEADING CAPABILITIES IN NEW MARKETING TECHNOLOGIES AI, AR, AND VR ARE SHOWING TOMORROW'S VIDEO TECHNOLOGISTS THE FUTURE.



## Introduction

Applying advancing technology is the key to our strategic approach to marketing when the focus is improving the effectiveness of marketing communications. Some teams are purposely built and driven to create marketing experiences that are dynamic, visceral, and immersive. Why?

It's simply the most efficient way to best engage customers and prospects at every point along their journey from awareness to consideration, making a purchase, and, finally, brand advocacy or loyalty. Effective marketing is always about pushing the envelope of the average. It's the only way to ensure top marketing agencies continue to deliver extraordinary results. By crafting optimum customer experiences, marketers create brand preference and conversion, in addition to impactful marketing messaging that drives the leads, brand awareness, and preference.





### Relevance of online videos creating the brand connection

When YouTube began to stream 360-degree, 4K video, integrated marketers recognized this particular progression of high-quality advertising video as the moment they had been waiting for. An opportunity to launch an initiative utilizing developing video tools and platforms to create and demonstrate a new leading edge for the marketing industry. FabCom had long dreamed of blending virtual reality (VR) with augmented reality (AR) with the ability to display it on any screen (without a headset). The continual expansion of Internet bandwidth, video play, and capture technology provided the opportunity to begin realizing that vision.

Over the next few years, the agency built out a 3,000 square foot image capture studio within our 10,000 square foot integrated marketing facility and invested more than \$1.2 million in state-of-the-art imaging equipment and software. As industry innovators, we also began re-engineering our staffing to bring in more diversified and cross-disciplined professionals in the video technology, creation, coding, and editing arenas. FabCom set out to fulfill the original dream of seamlessly marrying conventional video, VR, and AR. Against the so-called better judgement of many in the field, and by pure definition of the academics, we were told it was impossible.

### The assembly of video tech and talent

The agency recruited a veteran Hollywood film and television digital video technologist and a professor of video at a top technology university, to co-head up the new studio and help lead us further along the path of the future of cinematography level video, leveraged online for the sake of curating emotional connection and brand preference.

Today, a key software suite leveraged in our image capture studio for compositing is the distributive application, **Nuke**. It's the new best standard for compositing within the visual effects industry in motion pictures and television. It's a best of class, node-based digital compositing application designed for superior quality post-production.

Nuke users include:



*Nuke is the new industry best standard for compositing within the visual effects industry in motion pictures and television.*





## Video production scenario

A university asked us to create an amazing immersive video to assist in their recruitment of students to their degree programs. Because they are a technology university that teaches the programs that produce immersive video, they have an understanding of the nuances of great online video. They brought in FabCom because of the experience of our video department and their confidence in our video production and marketing ROI values.

The task at hand was to create a video to visualize the present and near future of Artificial Intelligence (AI), Augmented Reality (AR), Virtual Reality (VR), and Robotics. The client shared some spots they really liked, which were futuristic, but not “science fiction.” In essence, we worked on creating visualizations of where AI, AR, VR, and Robotics are going — the degree programs the university wanted FabCom to emphasize in a significant multi-channel, multi-screen, multi-stage recruitment campaign.

Before we dive into the video production and technical details of creating the spot, here's a quick, simple chart to help sort out the various rapidly evolving forms of digital videography:



## Video production process

Our process began with an extensive brainstorming session involving designers, strategists, and of course, our team of in-house technologists and video pros. We considered a variety of scenarios in which AI, AR, VR, and Robotics could interact together, to deliver the full experience of these technologies in technology driven industries such as telecommunications, undersea exploration, space exploration, disaster recovery, military, energy production, and healthcare.

The creative teams then envisioned four different, interlocking vignettes for each industry, so we'd see someone using AI to figure something out, using AR to see the data required, overlay it on real reality to see them using VR, and we'd see robotics being leveraged in some capacity to create the action. For instance, in space exploration, AI can be used for plotting courses through the solar system, AR is used to provide "heads-up" information to an astronaut's face shield, VR allows scientists to view a planet as though they are standing on it rather than just watching it on a screen, and robotics are used to actually explore a planet's surface and oceans.

How AR / VR / AI / Robotics can work / exist / be together / Side by side / consecutively to end up at an <u>endplace</u>	
<b>Military / Nation Building</b>	
0:30	Civil, Technology, Humanitarian
AR	Seeing real-time overlay on glasses, highlighter ordinance
VR	Dude <u>in loco</u> with headset driving robot
AI	Real-time feedback of robot on location
Ro	Bomb retrieval robots
<b>Medical Field</b>	
0:30	Medical
AR	Overlay of organs over (cadaver on) table
VR	Virtual surgery
AI	Stroke or other condition, highlighted possible dot points or condition causes
Ro	Davinci robot arm doing micro surgery - Sims Lab
<b>Space</b>	
0:30	Exploration
AR	Plotting trajectory / landing live data overlay
VR	Driving on delay
AI	Rover programming
Ro	Rover
<b>Deep Sea</b>	
0:30	Exploration
AR	Plotting course into trench
VR	Pilot operating submersible vehicle
AI	Calculating current, actual conditions
Ro	UUV
<b>Fire</b>	
0:30	Disaster
AR	Disaster Planning, live feedback
VR	Simulation
AI	Calculations
Ro	Drones
<b>Nuclear</b>	
0:30	Disaster
AR	Actual adjustments / data overlay
VR	Driving Robots with live feed to fix issues
AI	Calculations for effected area, wind flow, disaster planning, radiation spread patterns
Ro	Robot pulls a lever
<b>Oil Spill</b>	
0:30	Disaster
AR	Disaster planning
VR	Simulation of disaster visual
AI	Disaster calculations, <u>size</u> , wind, current, viscosity, flow
Ro	Remote cleanup robot vacuum
<b>Accessibility</b>	
0:30	Technology, Medical, Engineering
AR	Prosthetic development overlay
VR	Design hardware / software
AI	If/then response to touch
Ro	Arm moving
<b>Telecom</b>	
0:30	Wire world, scenario: planning the next evolution of communication
Technology, I.T.	
AR	Planning Radio waves relay / strength
VR	Design of systems at practical level
AI	Directional boost manipulation based on real-time data / usage
Ro	Telecom hardware

Video production content outlines

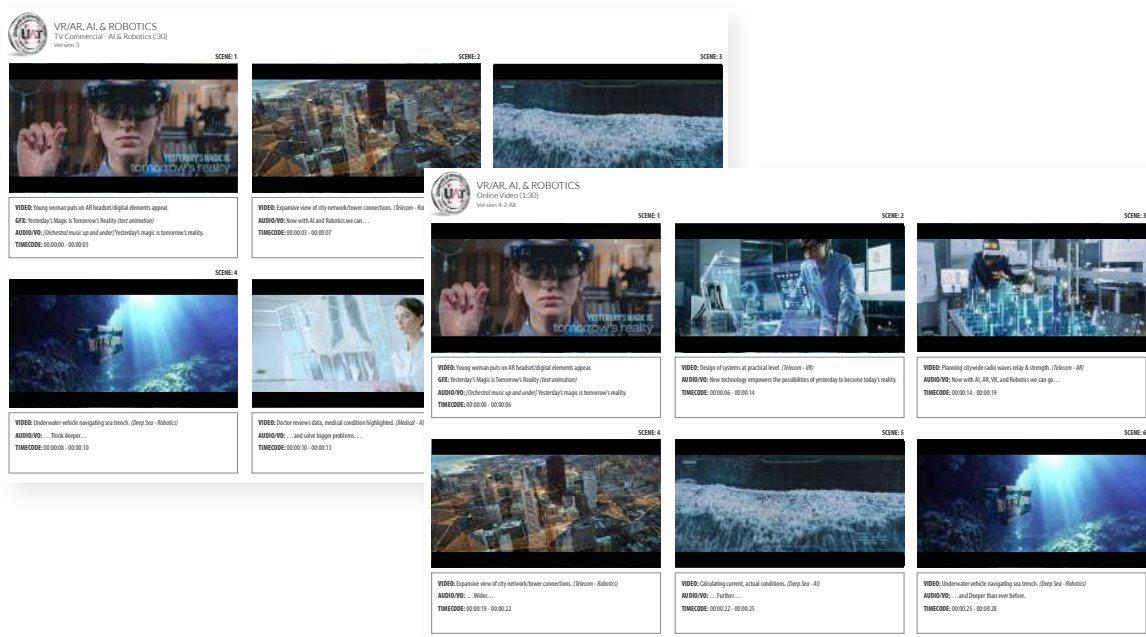
While scripts were being completed, concept scenarios were refined by the creative teams to add depth to the story structure during the storyboard process. This aided in including the growing number of industry sectors benefitting from the outcomes of applying AI, AR, VR, and Robotics to their respective fields.



## The best video production is about the ingredients and the talent

To balance the technical subject matter of the production, several music options were carefully considered to set the appropriate emotional tone for the video's target audiences. A slow-tempo, progressive audio track was selected to perfectly drive imagery for the demographics of prospective college students, as well as, their parent or guardian decision-makers.

In the editing phase, music and video elements flowed together through pacing of content supported by alternating female and male voice-overs. A new "stinger" animation of the university's logo was also created to close the video with impactful motion graphics that provide a call-to-action for those motivated to pursue a higher education in these emerging areas of technology.



Fully approved storyboards

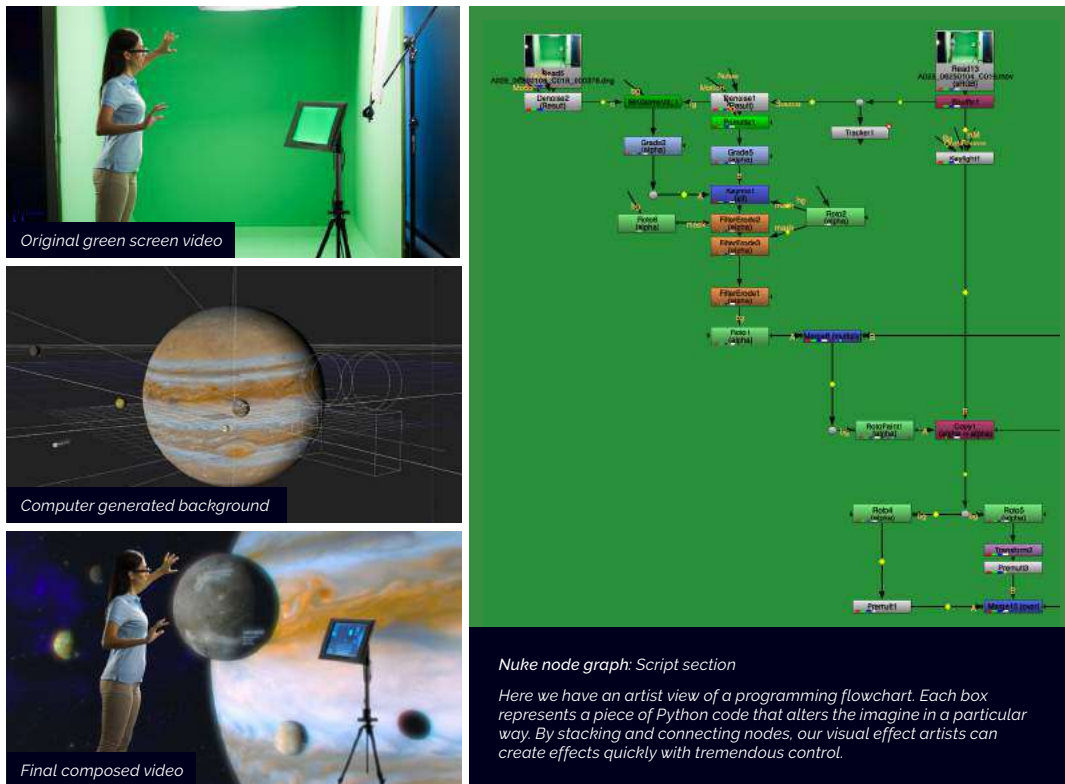
The integrated production team shot some of the material and also, due to the client's budget, purchased additional high-quality stock footage. Our senior video technologists led the charge on putting the video together, knowing that our intent was always to really embellish the stock footage with visual effects and motion graphics.

"Visual Effects" means fantastic imagery creation that happens in post-production.

"Special Effects" are real-action scenes that actually take place on set and are recorded on the camera. So, an exploding car via special effects is a real car actually exploding, and in the visual effects realm, the explosion would be computer-generated in post-production. Same thing — two ways to get there.



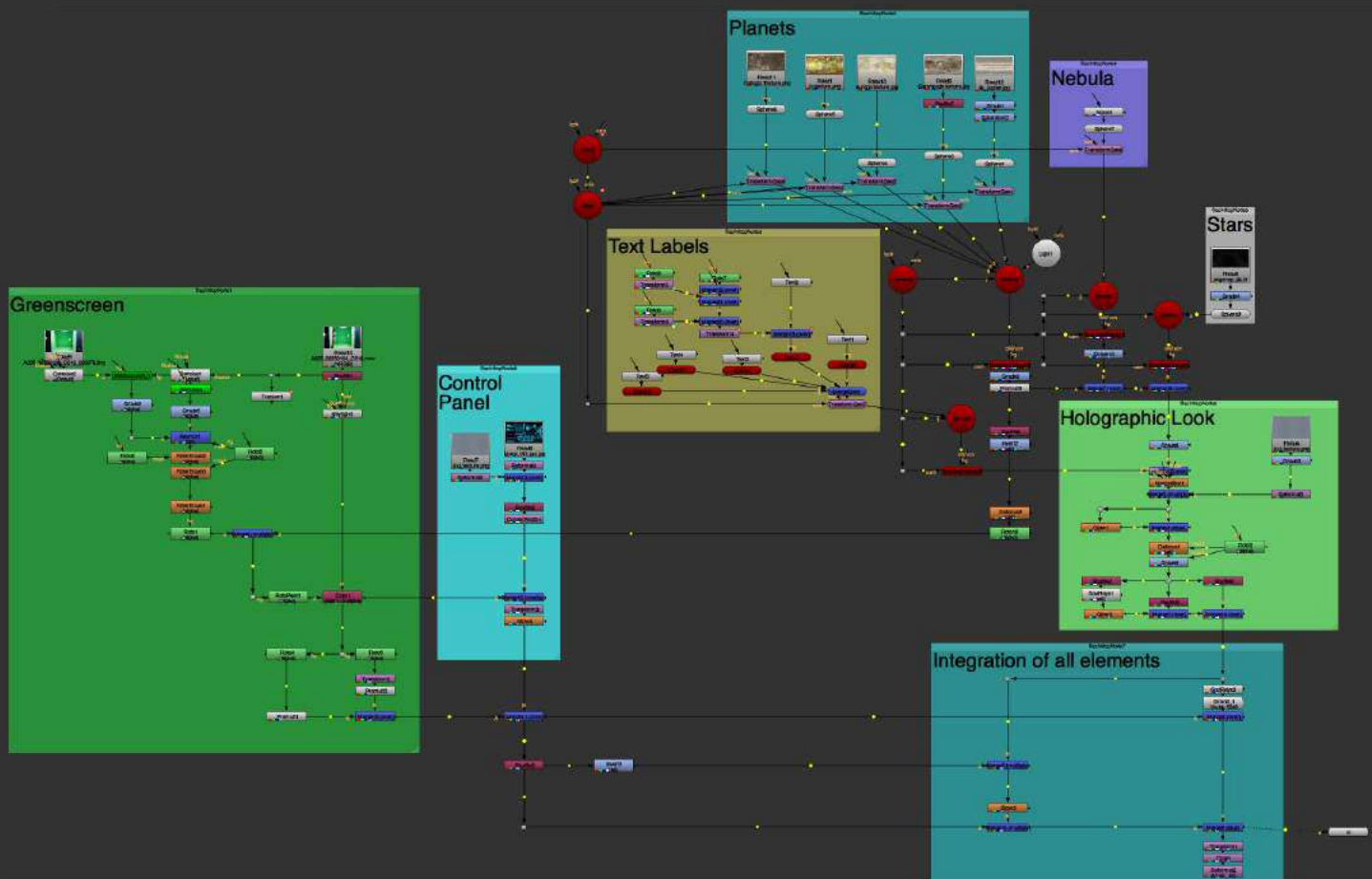
The content we shot in-house was accomplished through the use of our green screen studio. Take for example, the floating planetary sequence. We researched and provisioned the high-quality stock footage of the planetary body Jupiter and then set to work on augmenting it. Next, we shot a local actor in our green screen studio interacting with and expanding the planet, as if they were standing near it, for a closer look.



The agency's team looked at everything about the stock footage — lighting, color, composition, perspective, the lens used, and background, so our in-house cinematographer/editor could design the green screen shot so that the actor sequence we filmed matched precisely with the desired outcome.

The next task was to take the actor off the green screen and integrate her into the other stock footage of Jupiter and its surrounding moons. That's "compositing" — taking two or more layers of imagery and making a single, composite image. This is very similar to what designers do with a single image in Photoshop, which is called "photo-compositing." In video, that single frame appears 24 times a second, so the tools have to be different and behave very differently. Hardware and software do the compositing in motion over time in order to change and animate the video accurately. In instances where the camera is moving, it's tracked precisely so all the pieces stick together and appear as they're shot from the same moving camera.

*Nuke node graph showing sub-sections of composite*



## Results

The advertising video gained over 1 million views on YouTube in the first week and ran at the lowest cost per lead in company history. This campaign was only recently launched but has already produced 19% higher conversion rates than all other media ran to date. Conversion rates are lagging indicators in education, so check back next year and we will report definitive conversion rate success for the campaign.

We are now deep into our next breakthrough in video which is even more extraordinary.

You can see the completed online video integrated advertising landing page [here](#).



[uat.edu/next](http://uat.edu/next)

## FabCom is a full-service strategic marketing, PR, and advertising firm

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\*Amortized for media billings as calculated in the Phoenix Business Journal Book of Lists.