

# PATRICK CAMPBELL

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## CHIEF TECHNOLOGY OFFICER

Lead multi-disciplinary engineering and manufacturing project teams that create new technology for making movies and broadcast media. Biggest wins — the 3D camera that enabled the creation of Avatar, the highest grossing film in history, 23 patents, and four Emmys.

## PROFESSIONAL EXPERIENCE

### VER

Glendale, CA

*Private equity owned, global provider of production equipment and engineering support for TV, cinema, live event, broadcast, and corporate markets.*

#### Director, Global Camera Products & Product Design

2014 to Present

Lead design/build of specialty camera systems for events, documentaries, commercials, TV, broadcast sports, and films. Direct operations for large, globally deployed camera inventory. Manage 100-person team in six locations. Report to Executive Director, Camera Products.

- Led a cross-functional VER/ESPN team to develop a mirror-based, robotic Front Row Cam system to provide low angle, tight shots of pitchers' faces and super-slo-mo pitches. Won NATAS George Wensel Technical Achievement Award.
- Collaborated with new VER colleagues on post-acquisition integration of CPG's team, intellectual property, and physical equipment. Provided a CPG FPGA board that became the foundation of a new VER product that generates \$30+ million of annual sales.
- Developed modular aluminum furniture system in fulfillment of contract to provide turnkey broadcast facilities (TBF) to The French Open. Became VERSA PAK modular systems, a service line that enabled VER to take significant TBF market share from closest competitor.
- Designed and supervised buildout of a 21,000 square foot, state-of-the-art camera prep/equipment checkout facility, R&D lab, and machine shop in Los Angeles. Enabled VER to support film, TV, and custom projects of any size and scope.

### CAMERON | PACE Group (Acquired by VER in 2014)

Burbank, CA

*Privately held developer and global provider of 3D products, solutions, and creative tools for networks, studios, broadcasters, filmmakers, and creative groups. Formerly PACE (1997 start-up to 2011).*

#### Chief Technology Officer

1997 to 2013

Led design, manufacturing, testing, and installation of custom, purpose-built, 2D/3D camera systems for film, broadcast, and advertising customers. Managed teams of up to 50 people (mechanical, electrical, and software design engineers; manufacturing). Reported to CEO.

- Gained near 100% market share on top tier Hollywood films doing 3D.
- Supplied all ESPN 3D camera equipment.
- Led development of FUSION 3D stereoscopic camera and workflow system (used to shoot Avatar, the highest grossing film in history, \$2.8 billion).
- Achieved breakthrough, no-touch/floating, software-driven, motorized approach to balancing FUSION 3D cameras. Awarded 15 patents.
- Led development of Shadow Vision and Max Remote, technologies that allow a single camera operator to simultaneously shoot 3D and conventional 2D, which significantly

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reduced 3D production costs. Awarded six patents and an Emmy.

- Developed 3D image analysis and full servo remote alignment systems using OpenCV for automation and manual assistance of 3D camera system alignment. Reduced gross image misalignment errors and ensured camera system was always ready to shoot.
- Managed 300+ projects. Recruited and led teams that broke new ground with every contract. Translated clients' visions into actionable development plans. Used Waterfall/Agile methodologies. Achieved 100% of tech requirements and 100% of deadlines.
- Won three Emmys for technical achievement/innovation.

### Mosaic Industries

Newark, CA

*Privately held provider of embedded control systems for industrial and scientific applications.*

**Product Manager, Engineering**

**1994 to 1997**

## EMMY AWARDS

The George Wensel Technical Achievement Award, 2018  
(Front Row Camera, ESPN Sunday Night Baseball)

Team Technical, Remote, 2013  
(ESPN, 3D coverage of Winter X Games 16)

Team Technical, Remote, 2012  
(ESPN, 3D coverage of Winter X Games 15)

The George Wensel Technical Achievement Award, 2011  
(CBS Sports, 3D coverage of US Open Tennis Championship)

## PATENTS

Awarded 23 patents. See LinkedIn profile for complete list.

## EDUCATION

MS, Mechanical Engineering, Stanford University, 1995  
BS, Mechanical Engineering, California Polytechnic State University, San Luis Obispo, 1993