SUMMARY

- REDESIGNED THE RIGGING SYSTEM ON ELECTRONIC ARTS LARGEST TITLE: MADDEN NFL; & CONVERGED ILM'S OSCAR NOMINATED JANGO FETT WITH EMMY AWARD WINNING AHSOKA TAND INTO A PLAYABLE BUILD ON THE XBOX •
- . FORMER BEST PRACTICES REVIEW COMMITTEE AND EXECUTIVE TRAINSE OF LUCASFILM SELECTED BY THE FORMER CTO OF PETER JACKSON'S WETA DIGITAL WITH WORK SHOWN DIRECTLY TO GEORGE LUCAS.
- CEO'D A STARTUP WHERE I INVENTED AN AUTORIGGER THAT RIGS/SKINS CHARACTERS AT THE LEVEL OF ILM THAT AUTOMATES 80 HOURS OF RIGGING WORK INTO 15 MINUTES & IS VALUED BY 3 FORTUNE 500'S AT 20 MILLION IN 5 ACQUISITION TALKS
- * PERI'N A STARTIID WHERE 750 SCHOOLS ON S PONTINENTS WERE LIFENSED MY AUTODISSED IN S MONTHS AT A DARF OUT DENETDATING EAFERDIK LIF'S EDEFMIN MODEL IN UNIVERSITY APPEDIANCE ODE "SERIES A" INVESTMENT FOLLOWED BY WERINARS *
- FORMER INTERIOR ARCHITECT AT THE TWO LARGEST ARCHITECTURAL FIRMS WORLDWIDE, #1 GENSLER AND #2 NBBJ. WHOSE ARCHITECTURAL PRINCIPALS CAN BE APPLIED TO A VIDEO GAME ENVIRONMENT OR LEVEL DESIGN •
- EVENTUAL GOAL: CHIEF VISUAL OFFICER AT A MAJOR VIDEO GAME PUBLISHER. WHERE ANNUAL FARNINGS ARE GOOK TO 800K BASE. PLUS 1 TO 2 MILLION IN BONUS. AND 3 TO 7 MILLION IN STOCK ■





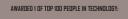
Startup Level Chief Visual Officer







BEST PRACTICES NOTES AT ILM/ LUCASARTS (1 DF 10 MEMBERS) PRESIDENTIAL TASK FORCE



CONFERENCE SPONSORED BY FACEBOOK AND AMAZON







AT THE LEVEL OF ILM DUE TO MY TECHNOLOGY.

MY TECHNOLOGY IN THE CLASSROOM

(250 UNIVERSITIES ON 6 CONTINENTS RECEIVED PRODUCT)

NOTE: SOPHOMORES IN COLLEGE ARE ABLE TO RIG CHARACTERS

FEATURE ABOUT ME IN

"THE WALL STREET JOURNAL

(MARKET WATCH)

Tech entrepreneur Brent Zorich unveils exciting apparel company shaped by experience at

MODULAR RIGGING DESIGN ENGINEERING CASE STUDY ON BUCKBEAK FROM 'HARRY POTTER AND THE PRISONER OF AZKABAN' WITH MY SOFTWARE I AUTHORED: 9D HOURS OF WORK COMPLETED IN 5 MINUTES.

NOTE: POSITIVE ACKNOWLEDGEMENT DUE TO ENGINEERING PRESENTATION FROM THE FRAMESTORE CFC WHO MADE THE ACTUAL OSCAR NOMINATED "BUCKBEAK









'21-CURRENT

19-CURRENT

19-CURRENT

11-CURRENT

48

47

ENTREPRENEURIAL VENTURES

BZP PRO MODULAR RIGGING ENGINEERING SYSTEM DESIGN ARCHITECT

"SKETCHES OF BRENT ZORICH": A CLOTHING LINE

VOXX STUDIOS RIGGING PROTOTYPING

ADDRE, INC. PRE RELEASE TEAM

DRA (DESIGN REPLACES ART) SOFTWARE ARCHITECT

WALT DISNEY FEATURE ANIMATION RIGGING PROTOTYPING USING MY BZP PRO SOFTWARE SONY PICTURES ENTERTAINMENT RIGGING PROTOTYPING USING MY BZP PRO SOFTWARE BZP PRO "SMART SKINNER" RIGGING PIPELINE SOFTWARE ARCHITECT/ CED/ COFOUNDER

(MODULAR SETUP ON WINGS, TAILS, TOES, BASE THAT COMPLETED UP TO 90 HOURS OF ILM LEVEL RIGGING IN 10 MINUTES) (FOLINDER / CHIEF EXECUTIVE OFFICER / CHIEF VISUAL OFFICER --- SHOWN ON FOX NEWS NRC CRS & USA TODAY AFFILIATES) (NDA RIGGING WORK VIA VITRUVIAN ENTERTAINMENT)

(PHOTOSHOP DA TESTING TEAM FOR APPLE'S IPAN PRO 2: GETTING ADVANCED COPIES AND TESTING ON BETA SOFTWARE) (TECHNOLOGY THAT ENHANCES A CONCEPT ARTIST'S ABILITY TO DESIGN CHARACTERS FROM SALES METRICS NOT RANDOMIZATION) (INCORPORATING MOTION CAPTURE HIK TO DISNEY FEATURE RIGS FOR "PROOF OF CONCEPT"- TESTED ON DISNEY'S "VAMPIRINA") (DAVID BAUTISTA FROM "GUARDIANS OF THE GALAXY VOL 2" AND 240 HOURS OF ILM LEVEL RIGGING COMPLETED IN 70 MINUTES) (WORKFLOW FROM ART=> SKELETON=> SKINNING=> ILM LEVEL CONTROL RIG/ MOCAP=> IN GAME OPTIMIZED ::: 80H LABOR IN 15M)











MADE SUCH ENDRMOUS STRIDES AS AN ENTREPRENEUR THAT MICHAEL JACKSON'S PR CONTACTED ABOUT PERSONALLY REPRESENTING ME.

- WHEN BZP WAS FEATURED AT SIGGRAPH AND GDC IN MY DWN BODTHS Z MILLION IN VERBAL SALES COMMITMENTS WERE GENERATED.
- ADVISED BY ILM COFOUNDER AFFILIATE TO NOT SELL BZP FORMULA I WROTE IN ACQUISITION BELOW \$20 MILLION.
- LECTURED AT OVER 40 UNIVERSITIES SHOWCASING BZP TECHNOLOGY.
- BYP FEATURED ON THE COVER OF A WORLDWIDE MAGAZINE FOR TECH I WROTE MYSELF IN MEL AND PYTHON
- BZP TECH BURNED TO WORLDWIDE MAGAZINE'S INCLUDED ACCOMPANYING DVD.
- 250 UNIVERSITIES ON 6 CONTINENTS WERE LICENSED MY AUTORIGGER IN 6 MONTHS AT A PACE OUT PENETRATING FACEROOK LLC'S ERFEMILIM MODEL IN LINIVERSITY ACCEPTANCE PRE "SERIES A" INVESTMENT.
- INTERVIEW SCREEN AND NEGOTIATE WITH VENTURE CAPITAL FIRMS FOR BZP FOLITY INCLUDING THE FIRM OF KEVIN D'LEARY (ABC'S SHARK TANK): RAISED INVESTMENT MONEY FOR BZP FROM BANKING ALUM OF HARVARD AND YALE.
- NOTE: MY LLC, BZP PRO, HAS BEEN UNDER ACQUISITION REVIEW FIVE TIMES WITH THREE SEPARATE FORTUNE 500 COMPANIES DUE TO TECHNOLOGY I WROTE ENTIRELY MYSELF AND BROKERED BY GOLDMAN SACHS ALUM FROM HARVARD.

SOFTWARE EXPERIENCE

TECHNOLOGY ENTREPRENEUR

MAYA (MASTER LEVEL OF EXPERIENCE), MOTION BUILDER, MEL, PYTHON, PHOTOSHOP, ZENO (ILM'S SOFTWARE), AFTER EFFECTS, FINAL CUT, VRML, PIXAR'S RENDERMAN, SLIM, HTML, C++, HIK CUSTOMIZATION AND AUTOMATION FOR MOTION CAPTURE

EDUCATION & AWARDS

- BSID: RACHELOR OF SCIENCE INDUSTRIAL DESIGN AT THE OHIO STATE UNIVERSITY: 1998 SENIOR THESIS CLIENT: NIKE - PRODUCT INVENTION AND CEN PITCH: REEBOK
- MA: MASTERS OF ARTS AT THE ADVANCED COMPUTING CENTER FOR THE ARTS AND DESIGN (ACCAD) AT THE OHIO STATE UNIVERSITY: 2011 GRADUATE ACADEMIC ADVISOR FOUNDER AND FORMER HEAD OF THE COMPUTER ANIMATION DIVISION AT RINGLING SCHOOL OF ART & DESIGN
- CONTINUING STUDIES SPECIALIZING IN LINEAR ALGEBRA AND ENGINEERING AT STANFORD UNIVERSITY: 2020
- AWARDED "THE THE TOP ION PEOPLE IN TECHNOLOGY AND INNOVATION" ACCORDING TO THE INTERCON CONFERENCE SPONSORED BY **FACEBOOK** & **AMAZON**.
- MEMBER OF SIGMA ALPHA EPSILON FRATERNITY (THE NATION'S LARGEST FRATERNITY)

















THE OHIO STATE UNIVERSITY

COMPLETED INCOMPLETE MASTERS DEGREE FOCUSING ON DINOSAUR PYTHON AUTORIGGING

2010-2011

2008-2009

LUCASFILM, LTD.

SENIOR TECHNICAL ARTIST (CORPORATE EXECUTIVE TRAINEE - BEST PRACTICES STEERING COMMITTEE)

"STAR WARS THE FORCE UNLEASHED ULTIMATE SITH EDITION" "INDIANA JONES AND THE STAFF OF KINGS"

"STAR WARS THE CLONE WARS: SEASON TWO"

"TRANSFORMERS REVENGE OF THE FALLEN" "STAR WARS THE FORCE UNLEASHED II"

"HARRY POTTER AND THE HALF BLOOD PRINCE"

(LEAD CHARACTER TECHNICAL CONSTRUCTION AND SUBMITTED CONCEPT ARTWORK)

(CHARACTER TECHNICAL CONSTRUCTION AND CHARACTER DEFORMATION R & D)- A STEVEN SPIELBERG PROJECT

(COLOR CORRECTION & COMPOSITING ON TWO EPISODES FEATURING CAD BANE AND ORI-WAN KENDRI)- SHOWN AT ANNIAL FIRM WIDE MEETING (SHOT APPROVAL IN DAILIES AT WEEKLY INDUSTRIAL LIGHT & MAGIC CREATURE R & D MEETINGS FEATURING OPTIMUS PRIME AND DEVASTATOR) (INITIAL KICKNEES SHAREN ASSETS FILE MANAGEMENT CHARACTER TECHNICAL CONSTRUCTION RESEARCH AND DEVELOPMENT)

(SHOT PREP FOR MONTHLIES APPROVED BY THE HEAD OF ILM SINGAPORE- SHOTS INCLUDE HARRY POTTER AND PROFILIMBLEDORE)

KEY ACHIEVEMENT: DUE TO BEING ONE OF THE TOP PEOPLE IN THE TOP COMPANY IN COMPUTER ANIMATION / GRAPHICS / AND VIDEO GAMES, PROMOTED, SALARY INCREASED, AND RELOCATED FROM SINGAPORE TO SAN FRANCISCO AFTER ONLY FIVE MONTHS.

- INVITED BY THE DIRECTOR OF ANIMATION TECHNOLOGY, FORMER CTO OF PETER JACKSON'S WETA DIGITAL (LORD OF THE RINGS), TO BE ON THE STEERING COMMITTEE SETTING "BEST PRACTICES" FOR LUCASARTS, LUCASFILM ANIMATION, AND ILM
- INVITED TO THE PRESTIGIOUS SKYWALKER RANCH ON NUMEROUS OCCASIONS TO OBTAIN EXTENSIVE RESEARCH THAT WAS INCORPORATED INTO CHARACTERS BOBA FETT AND JABBA THE HUIT.
- CONVERGED THE EMMY AWARD WINNING FILM AHSOKA TAND WITH ILM'S OSCAR NOMINATED JANGO FETT INTO AN OPTIMISED CHARACTER WORKING IN THE UNREAL ENGINE THAT WAS APPROVED DIRECTLY BY MR. GEORGE LUCAS IN SINGAPORE.
- REFERRED TO BY THE PROJECT MANAGER ON THE FILM GAME CONVERGENCE CREW IN SINGAPORE, WHO WAS A TEN YEAR SONY VETERAN AND HAD WORKED IN GAMES SINCE THE 1980'S, AS THE "TOP RIGGER" IN THE INDUSTRY.
- DUE TO THE ASTONISHMENT ON THE SINGAPORE FLOOR OF THE TECHNICAL TEAM AFTER I TECHNICALLY CONSTRUCTED ONE OF MY CONVERGENCE RIGS, I BEGAN TO BE REFERRED TO ON THE FLOOR AS "GOD."
- CHARACTER EXPLORATION DOCUMENTATION AND RENCHMARKING OF STAR WARS IP RIGGING ASSETS SLICH AS GENERAL GRIEVOLUS. THE EMPEROR ANSONA TAND KIT FISTO LORD VADER AND ANAKIN SKYWALKER IN SINGAPORE
- QUIALITY ASSURANCE, ANIMATION CYCLE TESTING, EXPLORATION, AND TECHNICAL DOCUMENTATION ON STANDARD ILM RIPED, QUIADRUPED, AND WINGED CHARACTERS IN SINGAPORE
- INVITED INTO HIGHLY COVETED CREATURE RESEARCH AND DEVELOPMENT MEETINGS AT INDUSTRIAL LIGHT & MAGIC AFTER DEMONSTRATING TECHNICAL ABILITY TO ILM DEPARTMENT SUPERVISOR.
- ADMITTED INTO LUCASEILM EXECUTIVE TRAINING VIA ENGAGED LEADERSHIP LLC. AFTER PROVING STRONG LEADERSHIP QUIALITIES FOR THE TEAM, LWENT THROUGH EXEC TRAINING REFORE MY OWN MANAGER
- EXECUTIVE RECRUITING: AFTER THE FIRM WIDE VIEWING OF QUANTUM OF SOLACE, THE VICE PRESIDENT OF LUCASARTS HAD ME ACCOMPANY HIM TO LUNCH IN SAUSALITO TO ASSIST WITH RECRUITING CORPORATE STAFF OF ELECTRONIC ARTS (FIFA) FOR LUCASFILM.

THE PRESIDENT OF LUCASARTS POSITIVELY REVIEWED MY EXECUTIVE PROPOSAL ENTITLED OFFENSIVE ATTACK STRATEGY AROUT ATTACKING LUCASEUM OPPOSITION AND PASSED IT ON TO THE BOARD OF DIRECTORS

- ONE OF THE CHARACTERS COMPLETED WITH LINDER MY LEAD TECHNICAL DIRECTION. LILTIMATE EVIL. WAS CHOSEN AS THE COVER OF STAR WARS THE FORCE LINLEASHED. A VERY PRESTIGIOUS HONDR
- DOCUMENTED AND EXTRACTED KEY ASSETS OF ILM'S RIGGING SOFTWARE BLOCK PARTY LTD DO QUALITY ASSURANCE AGAINST AUTODESK MAYA FOR MULTI DIVISIONAL LISAGE

EA SPORTS (ELECTRONIC ARTS)

ASSOCIATE TECHNICAL ARTIST (LEAD RIGGER ON CENTRAL FOOTBALL)

(CHARACTER TECHNICAL CONSTRUCTION OF DRAGON VILLAIN CHARACTER, CITIZEN MODELING, AND MODELING OF LEX LUTHOR'S WARDROBE)

2005, 07-08

"MADDEN NFL 08" "NCAA FOOTBALL 08" (SHOULDER PAD RESEARCH AND DEVELOPMENT. FOOTBALL PLAYER SKINNING)

"TIGER WOODS PGA 09" "EA SPORTS MMA" (PROTOTYPE RIG DEVELOPMENT)

"NFL TOUR" "NFL HEAD COACH 09" (IN CHARGE OF CHARACTER TECHNICAL CONSTRUCTION FOR ALL CHARACTERS IN TITLE)

"MADDEN NEL 119" "ΝΓΔΔ ΕΠΠΤΒΔΙΙ Π9" ON CHARGE DE CHARACTER TECHNICAL CONSTRUCTION FOR ALL CHARACTERS IN TITLE- KEY STANDARDS: BRIAN LIRI ACHER, DREW BREES, TERRELL OWENS'

"SUPERMAN RETURNS"

"NBA LIVE 09" "NHI П9" (GLOBAL RIGGING GUIDANCE BETWEEN EA ORLANDO AND EAC VANCOUVER'S BODYSHOP) - RIG SWAPPING "FACEBREAKER" "FIFA 09" (GLOBAL RIGGING GUIDANCE BETWEEN EA ORLANDO, EA LONDON, AND EAC VANCOUVER'S BODYSHOP) - RIG SWAPPING

"HARRY POTTER (ORDER OF THE PHOENIX)" (GLOBAL RIGGING GUIDANCE BETWEEN EA ORLANDO, AND EA LONDON) - RIG SWAPPING

- KEY ACHIEVEMENT: SALARY INCREASED AFTER ONLY THREE MONTHS WITH LINKEDIN ENDORSEMENTS FROM BOTH MY MANAGER (THE DEV DIRECTOR OF CENTRAL RENDER) AND THE MAIN PRODUCER OF MADDEN NFL.
- PITCH TO HEADS OF CENTRAL FOOTBALL ABOUT FA SPORTS WORKING WITH NIKE TO COLLABORATE ON BIOMECHANICS AND MOTION CAPTURE AFTER REQUESTED HOW TO IMPROVE THE TEAM
- REDESIGNED THE FOOTBALL RIGGING SYSTEM BASED ON ANATOMICAL PROPORTIONS AS OPPOSED TO CARTOONY EXAGGERATION THAT USED THE STUDIO CUSTOM QUATERNION NODE AND WAS IMPLEMENTED ON ALL FOOTBALL TITLES GOING FORWARD.
- PARTIALLY DIE TO MY REDESIGNED RIGGING SYSTEM MADDEN NEL XX (MADDEN NEL 09) RECEIVED THE HIGHEST REVIEWED SCORE (91) DE ANY MADDEN DIVER THE LAST 7D YEARS DIVIGIN SINCE MADDEN NEL DA
- IO DOD ANIMATIONS (ENTIRE FOOTRALL ANIMATION LIBRARY) RETARGETED TO MY RIGGING SETUP'S REDESIGN ON EA SPORTS TOP GROSSING MULTI BILLION DOLLAR ANNIJAL TITLE MADDEN NEL (CENTRAL FOOTRALL)
- DIE TO THE ART DIRECTORS ON CENTRAL ENORGAL I REING CONCERNED THAT I WAS GOING TO LEAVE THE STUDIO AFTER DNLY TWO MONTHS DIE TO MY FRUSTRATIONS WITH THE FA ORI ANDO LACK OF TECHNICAL KNOW FORE THEY TOOK ME TO LUNCH AND SOLD ME ON STAYING FOR AN ADDITIONAL YEAR; CLAIMING ME TO BE ONE OF THE TOP TALENTS IN ALL OF EA.
- DIJE TO THE REMARKABLE. JOR DONE DIJRING THE SUPERMAN RETURNS INTERNSHIP MANAGEMENT AWARDED THE TASK DE CREATING LEX LITHOR'S WARDROBE (THE RAME HERD CHARACTER). TYPICALLY ASSIGNED TO A SENIOR DIFFETOR

2K SPORTS (TAKE 2 INTERACTIVE)

CHARACTER TECHNICAL DIRECTOR

2006

"COLLEGE HOOPS 2K7" (SHOULDER DEFORMATION TWEAKING CHEERLEADER CHARACTER TECHNICAL CONSTRUCTION)

"COLLEGE HOOPS 2K8" "NRA 2K8" (CHARACTER TECHNICAL CONSTRUCTION RESEARCH AND DEVELOPMENT- TESTED ON DATA DE SHADIJILLE D'NEAL)

DREAMWORKS SKG OUTREACH PROGRAM PARTICIPANT VIA OSU TRAINED BY A COLLECTIVE GROUP FROM SHREK, MADAGASCAR, SHARK TALE, & SPIDER-MAN 2 2005

BRAVE NEW PICTURES (THE DISCOVERY CHANNEL)

CHARACTER TECHNICAL DIRECTOR/ ANIMATOR/ COMPOSITOR/ MODELLER

THE REPUBLIC OF CHINA (DRAFTING)

2003-2005

"THE MYSTERY DINOSAUR"

(RIGGING, ANIMATING, AND COMPOSITING OF PHOTOREAL DINOSAURS FOR NATIONAL TELEVISED "WALKING WITH DINOSAURS" PIECE.)

(WORKED WITH PALEONTOLOGIST TEAM THAT ADVISED ON SPIELBERG'S JURASSIC PARK)

PRIOR WORKED AS AN INTERIOR ARCHITECT AT GENSLER (#1 RANKED DESIGN FIRM WORLDWIDE '99-01) AND NBBJ (#2 RANKED DESIGN FIRM WORLDWIDE '98-99)

VOLKSWAGEN (DESIGN DEV & CONSTRUCTION DOC) LINCOLN MERCURY (DESIGN DEV) ADIDAS (STORE AUDITING)

(CAN APPLY STATIAL DESIGN ARCHITECTURAL AND WAYFINDING THEORY TO VIDEO GAME LEVELS/ ENVIRONMENTS)

























ENTREPRENEURIAL ACCOMPLISHMENTS TO PRESENT FOR HIRE TO A MAJOR GAME STUDIO AS A CHIEF VISUAL OFFICER

(MASTERING THE BUSINESS MODEL OF BILL GATES, STEVE BALLMER, PAUL ALLEN, AND MARK ZUCKERBERG)

1. FORMATION

IDENTIFY THE PROBLEM AND CONCEPTUALIZE THE LLC

2. INNOVATION DESIGN ENGINEER/ INVENT THE TECHNOLOGY

CAN IDENTIFY A WORK PROCESS THAT IS IN NEED OF AUTOMATION IN THE INDUSTRY AND FORM A LLC THAT BRINGS ON PARTNERS FOR CAN RAISE MONEY FROM BANKING

CAN ASSIST IN THE WRITING OF

CAN INVENT A NEW TECHNOLOGY TECHNICAL PROCEDURE THAT PRODUCES ULTS AT THE LEVEL OF ILM AND IS VALUED AT 20 MILLION WITH OVER 15K LINES OF CODE CAN CO-CREATE A FREEMIUM OUT-PENETRATES FACEBOOK LLC PRE "SERIES A" WITH OVER

3. INTEGRATION MARKET THE LLC WORLDWIDE

4. CLOSURE SELL OFF THE LLC

CAN DEVELOP UNIVERSITY RELATIONS SETUPS LECTURING AND SHOWCASING THE TECHNOLOGY TO OVER 40 SCHOOLS WORLDWIDE

CAN ACQUIRE INTERNATIONAL ADVERTISEMENTS FOR THE LLC

CAN GET GLOWING REVIEWS FROM THE USER BASE, INCLUDING BEING CALLED "MIND BLOWING" FROM THE TOP PERSON IN THE INDUSTRY, IN This case the Siggraph Chair

CAN MAKE SUCH AN IMPRESSION IN THE INDUSTRY THAT WE ARE FEATURED ON BOTH THE COVER OF RLDWIDE MAGAZINE, THE WALL STREET JOURNAL MARKET WATCH, AND TRIAL TECH INCLUDED IN MAGAZINE ACCOMPANYING DVD

CAN GET MULTIPLE NDAS AND IMPRESS OVER Three Fortune 500s for acquisition review

EVERYTHING HAS BEEN ACCOMPLISHED EXCEPT FINALIZING AN ACQUISITION DEAL: NEGOTIATIONS WERE AROUND THE 20 MILLION DOLLAR RANGE

SMART SKINNER RIGGING PIPELINE SOFTWARE:

- WROTE ENTIRE TECHNOLOGY BY MYSELF IN MEL AND PYTHON
- CUSTOMIZABLE UPON REQUEST: FEATURED AT SIGGRAPH AND GDC
- ADVISED BY ILM COEDLINDER AFFILIATE TO NOT SELL BELOW \$20 MILLION
- 3 ACQUISITION REVIEWS WITH 3 SEPARATE FORTUNE 100 COMPANIES
- RAISED INVESTMENT MONEY FROM BANKING ALUM OF HARVARD AND YALE
- FEATURED ON THE COVER OF A WORLDWIDE MAGAZINE
- TECH BURNED TO WORLDWIDE MAGAZINE'S INCLUDED ACCOMPANYING DVD
- 250 UNIVERSITIES ON 6 CONTINENTS RECEIVED PRODUCT





ATTACH MODEL TO





GENERATE ILM LEVEL

CONTROL RIG INSTANTLY



9. OVER 80 HOURS SAVED IN 15 MINUTES EITHER 6.

RIII





APPLY MOCAP DATA TO

KEYFRAME CONTROL RIG

WITH GUI BUTTONS

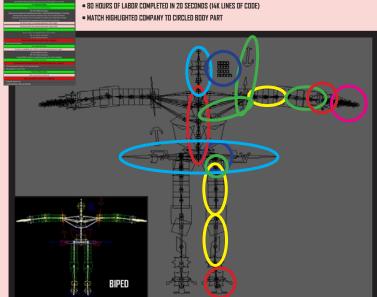


OPTIMIZE CHARACTER FOR

OPTIMIZE CHARACTER FOR In game use with gui

PRINCIPAL TECHNICAL ART FILM GAME CONVERGENCE

- SMART SKINNER SOFTWARE CONTROL RIG TECHNICAL INFLUENCES
- 80 HOURS OF LABOR COMPLETED IN 20 SECONDS (14K LINES OF CODE)





BI-MONTHLY BEST PRACTICES REVIEW COMMITTEE SELECTED BY FORMER CTO OF PETER JACKSON'S WETA DIGITAL



JANGO FETT

LUCASARTS





2K SPORTS

EA GAMES



I II CASFII M ANIMATION



EA SPORTS



CHARACTERS EXPLORED AT LUCAS ANIMATION



TITLES EXPLORED AS EA GLOBAL RIGGING ATTENDEE

Interview

workspace

Industry insider Brent Zorich

Character technical director, Lucasfilm

Each issue, 3D Artist finds out how the top people in the 3D industry got their jobs and what you need to know to get a foot in the door

About the insider

Job Character technical

here are few people in the 3D industry who can claim to have worked on bestselling EA games titles one year and hung out at Skywalker Ranch with Lucasflim the next, but Brent Zorich is a man who can. Zorich was part of a steering committee meeting for Lucasflim on film?

game convergence. In addition, he was lead rigger on The Force Unleashed: Ultimate Sith Edition. On this title, he was working in the LucasArts division, looking at pipeline and storage optimisation and lead rigging on such characters as Jabba the Hutt and Boba Fett. Zorich was also dealing with convergence on all divisions from Lucasfilm to LucasArts, Lucasfilm Animation, Industrial Light & Magic and Lucasfilm Animation Singapore.

3D Artist: What did this role of working on

convergence mean in practice?

Brent Zorich: As a part of the senior staff, I wrote proposals to help set the direction for Lucasfilm Ltd as a company. In Singapore, not only was I part of research and development prior to my promotion and relocation to the home office in San Francisco, I



also worked on colour correction and compositing for Star Wars: The Clone Wars.

3DA: How did you get this job? BZ: I applied online and was hired after Lucasfilm Animation Singapore saw the great work I did on EA Sports' football franchise.

3DA: What kind of course did you do at university, or

training did you do?

BZ: At ACCAD at the Ohio State University, I did BC: At ACCAD at the Ohio State University, I did extensive research on the following topics: VRML; procedural animation; Pixar's RenderMan; motion capture. I also researched Wayfinding in real-time simulation (the subject analysed and improved upon was the game Spider-Man The Movie). First of all, the Wayfinding tool was created out of

VRML and theories worked on with an eminent scholar, I also studied the enhancement of realism in computer animation through the incorporation of biomechanics and fatigue (the subject analysed was Shrek). Next, I looked at rigging of prehistoric animals with my project-based thesis Mystery Dinosaur work. Finally, I looked at creatures evolving based on the ecosystem around them. Classes were also taken in digital still-life lighting and theatre lighting.

3DA: For roday's generation of students, what is the kind of educational grounding they should be looking to undertake to goe at first job as character animator, or is the entry level a less specific role?

BZ: This is the way that 1 ol. I. have a television next to my monitor. I watch larry Potter and the Prisoner or Askaban (the Backbeak Seenel, if II am embarrased to look at what is on my monitor then I'm not done, rolate and stimple. I am embarrased to the proposed to the prisoner or t plain and simple. I am my own toughest critic and I have zero tolerance.

rigger at EA Sports, what kind of work did that entail?









BZ: I needed a complete understanding of physiology BZ: Inceded a complete understanding of physiology of humans built for strength and speed. Because I was an athletic trainer who trained football players, it came to me naturally. I know how a football player flexes, I know how they run and sprint and I know how they get prepared for collision. Often, because I have a football player's body. I would go into the washroom at EA where there was a mirror, take off my shirt and flex both my traps and my arms to see the proper deformation. This is how I got into character and what made it so easy is that the character I was getting into was myself!

3DA: Is there much of a culture or professional working practice difference between working for someone like EA and a company like Lucasfilm?

BZ: You are who your team is. Lucasfilm, as a

company, is a natural fit for me. We both have zero tolerance when it comes to the quality of our work.
We push the absolute limitation of

technology in every way, shape
and form. Because we
are not on yearly titles,
we have the ability to push back a launch date to guarantee that we are doing our best to break new ground.

> 3DA: What software packages and tools have you used for ing and animation BZ: I use Maya, the

proprietary software to Industrial Light & Magic, and After Effects and HyperCam for documentation.

3DA: Do you think there is a shortage of skilled digital artists doing animation and did you find it difficult getting into the industry?



BZ: My best advice to any student is try to do an internship in a studio. Do not rush to get out of school; stay in and develop your craft. Finally, do the Buckbeak test as I mentioned above.

3DA: What are the key skills required to work as a

shareter animator or character rigger?

BZ: Observation, patlence and the goal to push technology. Everything you do, imagine you have to present it to George Lucas. Then you will work harder and will expect the absolute best from yourself and

3DA: If there was one feature missing from current software apps that you would like to see implemented to help with any aspect of CG animation, what would

BZ: I saw a demo from a company where you can actually draw arcs of motion on a Wacom tablet and the object will have an animation path.

3DA: Professionally, what's the most satisfying project

3UN: Projessionally, War's the most satistying project you've worked on and why?

BZ: Seeing my name at the end credits of Siar Wars: The Force Unleashed, Ultimate Sith Edition makes me incredibly proud. I saw the first Star Wars film when I was three in 1977; It motivated my whole career. To see my name in a Star Wars product gave en a sense eny name in a Star Wars product gave en a sense. of satisfaction.

3DA: What would be your dream project to work on? BZ: One that continues to push film/game convergence on every level. The ultimate goal for me would be to have an engine that supports a controlled character and the user cannot distinguish between real-time and render.



Questions & answers



he community at www.3dartistonline.com

SURFACE SHADERS

culpt a so-fi solder ip



01 Execute Scale Node and sketch skeleton

SKECCH SKEIECON

Push the button to activate the Scale Node.
This will set the overall scale of the rig. Then hit button 2 to generate the sketch skeleton that is already in a base proportion. The animator needs to translate the root of their

02 Block out proportions of the skeleton

03 Create leaf joints for deformation and counter rotation

04 Delete unwanted joints or simplify for mobile gaming

06 Create control rig and facial GUI

Auto rigging with Smart Skinner How can I rig and skin a character more efficiently

to save billable hours - typically days or weeks?

Download (

20 MINS

