

ASYA CARA PEÑA

MECHANICAL ENGINEER | WRITER

626.627.7374 
a.c.hollins@gmail.com 
Pasadena, CA 

EDUCATION

B.S. MECHANICAL ENGINEERING

UNIVERSITY OF CALIFORNIA,
LOS ANGELES
2010-2014

FUNDAMENTALS OF SYSTEMS ENGINEERING CERTIFICATE

CALTECH
2021

SKILLS

CALIFORNIA LICENSED PROFESSIONAL ENGINEER

LICENSE NO. M 39965

TECHNICAL

COMPUTER SKILLS:

- SOLIDWORKS
- G SUITE
- AUTOCAD
- ANSYS
- ENOVIA SMARTTEAM
- WINDCHILL PDM
- NAVISWORKS
- MATLAB
- MICROSOFT SUITE

CREDITS

WRITER & CREATIVE CONSULTANT, THE
WALT DISNEY COMPANY'S THE BOND:
BLACK WRITERS CLUB

CREATIVE DIRECTOR (STRETCH
ASSIGNMENT), ESPN CREATIVE WORKS
FOR WRITING SAMPLES, PLEASE EMAIL ME.

ACCOLADES

CHAIRPERSON, WOMEN'S
INCLUSION NETWORK

"INCLUSION IS THE FIFTH KEY"
CORE TEAM MEMBER

WDI INCLUSION COUNCIL MEMBER

TEA AWARD WINNER FOR OUT-
STANDING ACHIEVEMENT:
ATTRACTION

APPEARED ON *BEHIND THE
ATTRACTION* ON DISNEY+

ABOUT ME

Highly analytical Creative Technologist with 7 years experience leading the development and execution of cutting-edge, user focused immersive experiences. Led the Trackless Vehicle system on the most technologically advanced ride system ever delivered, the TEA Award Winner Star Wars: Rise of the Resistance.

EXPERIENCE

WALT DISNEY IMAGINEERING | LOS ANGELES, CA | 2014 – PRESENT

PROJECT ENGINEER, UPCOMING ANCHOR ATTRACTION

Manage end-to-end scope of ride design and delivery from early Concept development to field installation for innovative ride platforms.

- Defined system level requirements, schedule, and scope of work approved by Creative and Operational stakeholders; Received capital authorization when over seven previous iterations failed.

LEAD ENGINEER, STAR WARS: RISE OF THE RESISTANCE, TRACKLESS VEHICLE

Managed three external Vendors simultaneously across the U.S. to take concept art from napkin sketch to a fully designed and integrated trackless vehicle fleet.

- Pioneered the approach for the first Onboard Animated Prop within Guest Reach, the R5-J2 astromechs.
- Designed retrofit kits in post production to make vehicles accessible to Guests with Disabilities, saving over twelve months of control system development.

R&D ENGINEER, LARGE CHARACTER DESIGNER

Designed interfaces between exoskeleton technology and human performers to bring large characters to life. *For more information, see The New York Times article, "Are You Ready for Sentient Disney Robots?"*

- Used rapid prototyping (3D Printing and machining) to quick test qualitative, user-experience requirements in mechanical systems.

BLUE SKY CONCEPT ENGINEER, NEW EXPERIENCES

Provided high-level technical development and scope definition of Show/Ride concepts ensuring consistency with guidelines, standards, and codes and acted as key liaison between Engineering and Creative groups.

- Led a diverse, multi-disciplinary team on a creative exploration of new applications of existing technology delivering over thirty distinct concepts and pitches.

MECHANICAL ENGINEER, LUIGI'S ROLICKING ROADSTERS