KRISPIN J. LEYDON

krispin@alum.dartmouth.org
(267) 614-6832

EXPERIENCE:

Principal UI/UX Designer & Senior Engineer · **Doosan Grid** · Remote (SF & Seattle) · 2019 – 2021
Overcoming intermittency in renewable electricity generation, through intelligent utility-scale energy storage. Designed interfaces that enable people to visualize, predict, and respond to opportunities in energy markets.

Senior Designer · **PIXAR** · Emeryville, CA · 2016 - 2018
Served as the primary designer for the Presto Animation System, used by artists throughout PIXAR. Supported the Studio Tools team through research, prototyping and analytics.

Lead Designer/Engineer · **Angaza** · San Francisco, CA / Nairobi, Kenya · 2014 - March, 2016
Co-created a web/mobile/embedded/sms platform enabling pay-as-you-go energy access for ~50M off-grid households, world-wide. Conducted field research in rural Kenya and India.

Lead Interaction Designer · **Walt Disney Animation** · Burbank, CA · 2009 - 2013
Designed interfaces, workflows and physical controls for artists at all stages in animated feature film production. Developed the studio's first pinpoint-accurate, pressure-sensitive Bluetooth iPad stylus: hardware and firmware.

Engineering Consultant · **Solar Analytic Solutions** · La Cañada-Flintridge, CA · Dec 2010 - Aug 2011
Prototyped a wireless monitoring system for utility-scale solar installations: Software, firmware and hardware.

Lead UI Designer & Firmware Engineer · **Tesla Motors** · San Carlos, CA · 2005-2008
Designed and developed the on-board computer system for the world's first electric production sports car. Wrote safety-critical code to monitor and manage lithium-ion energy storage systems and deliver user-facing alarms. Collaborated across engineering, test, design, marketing, documentation, legal and leadership teams.

Research Officer · **Interaction Design Centre** · National Technology Park · Ireland · 2001 - 2004
Conducted research on self-organizing powered-sensor networks, in collaboration with the European Media Lab and MIT. Sketched storyboards for the European Union Future and Emerging Technologies Program.

Web Developer · **TAEdge** · Hanover, NH · Summer, 1999 & 2000
Design/development of an online site-builder for the American Society of Travel Agents.

Teacher and Coordinator · **Colegio Las Colinas** · Barquisimeto, Venezuela · 1998
Created and implemented an English language program. Taught Venezuelan classes at multiple levels.

Additional Experience: Maintaining a Shipping Container-Based Hydroponic Facility, Airplane-Hangar Construction, Tree Planting in Navajo Nation, Cataloging Government Documents, Managing a Canoe and Kayak Club, Bookbinding, Graveyard Maintenance

EDUCATION:

University of Limerick · Limerick, Ireland
MSc. in Computer Science, Concentration: Embedded Systems · Dec 2004

Dartmouth College · Hanover, NH
B.E. in Engineering, 2001; B.A. in Engineering Sciences, *Cum Laude*, 2000

SKILLS:

Natural Languages: English, Intermediate Spanish and French
Code Languages: C, C++, Obj-C, Swift, Java, JS/TS (React, Vue, Node, etc.), Python, PHP, HTML
Electronics & Solid Modeling: DipTrace, ExpressPCB, Alibre, PreForm, some Maya
UI/UX: User Research, Participatory Design, Wireframing, Low/High Fidelity Mockups and Prototypes
Platforms: Mac, Windows, *nix, ARM, PIC, NRF52 (Bluetooth), Arduino, iOS, Android & Web
Collaboration: Slack, Trello, GitHub, Google Docs, Dropbox, Skype, Zoom, InVision, Figma

INTERESTS:

Cooking with friends, daydreaming on train rides. Wood turning, 3D printing, blues harmonica, and travel. Have walked the 2,000-mile Appalachian Trail from Georgia to Maine.

Disney Inventor Award · Disney · 2012
Thayer School C.A.B. Engineering Design Prize · Dartmouth College · 2001
International Baccalaureate · George School · 1995

With PIXAR:

Academy Award Nomination, Best Animated Feature · Incredibles 2 · 2019
Academy Award, Best Animated Short · Bao · 2019
Sci-Tech Academy Award, Presto Animation System · 2018
Academy Award, Best Animated Feature · Coco · 2018

With Walt Disney Animation:

Academy Award Nomination, Best Animated Feature · Frozen · 2014
Academy Award, Best Animated Short · Paperman · 2013
Academy Award Nomination, Best Animated Feature · Wreck-It Ralph · 2013
National Movie Award, Best Animation, United Kingdom · Tangled · 2011

With Tesla:

Best Inventions: Transportation · Time Magazine · 2008
Best Product EcoDesign · BusinessWeek · 2007
Car of the Year · WIRED Autopia · 2007
Breakthrough Award · Popular Mechanics · 2006

With the Interaction Design Centre:

O2 National Media Design Award Nomination · Dublin · 2003

INDEPENDENT ANIMATION:

Official Selection · Ann Arbor Film Festival, Michigan, · 2001
Official Selection · Auburn International Film Festival, Australia · 2001
Official Selection · PISAF Animation Festival, Puchon, Korea · 2001

PATENTS:

US9130396 · "Kinetically-Chargeable Stylus Device" · Disney · 1/7/2013
US9250722 · "Pressure and Angle-Sensitive Stylus Device" · Disney · 1/7/2013
US20130024801A1 · "Compact [GUI] for Flexible Filtering of Data" · Disney · 7/19/2011
US9138167 · "Rendering Key Respiratory Measurements Accessible to Mobile Devices" · 9/22/2010

OPEN SOURCE:

prisma-session-store · More than 1,000 weekly downloads on NPM · 1/11/2022

ATHLETICS:

Appalachian Trail · Walked 2,186 miles from Georgia to Maine · 2013
5,485th place · Dublin City Marathon · 2003