

Hi, I'm Phil.

PHILIP GASE

UX Researcher | Designer | Engineer

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I'm a trained engineer, project manager, and now UX generalist with industry experience at the intersections of research, design, product development, and production. I find solutions to ambiguous challenges by unravelling and understanding human needs.

EDUCATION

Carnegie Mellon University

Master of Human-Computer Interaction

QPA: 3.99 / 4.00

Pittsburgh, PA

Aug 2020 - Aug 2021

Purdue University

BS in Chemical Engineering, Cum Laude

GPA 3.90 / 4.00

West Lafayette, IN

Aug 2009 - Dec 2013

SELECT SKILLSET

UX Design & Research

Business Strategy & Design

Design Research

Service Design

Concept Generation & Sketching

Multimodal Interaction Design

Rapid Prototyping & Fabrication

Design Tools

Figma

Adobe Premiere Pro, After Effects

HTML, CSS, Javascript, React

Arduino

3D Printing - Autodesk Fusion 360, Cura

Voiceflow

Soft Skills

Leading & Communication

Relationship & Linkage Recognition

Adaptability

Creative Problem Solving

Foreign Language

Italiano - A2 (Elementary)

Deutsch - A2 (Elementary)

Hobbies

Soccer (Former Arena Semi-Professional)

Travel & Language Learning

Snowboarding

PROFESSIONAL EXPERIENCE

NASA x Carnegie Mellon University

Jan 2021 - Aug 2021

UX Strategy | Design Lead

- Co-led the human-centered research and design of a new communication tool for future Mars missions with sustained signal latency
- Developed the design strategy and led team through design research sprints
- Responsible for early-phase prototyping, concepts, interaction, and experience design
- Mentored other team members and helped their development with project management, client communication, and pitching and presentation skills

Ford Motor Company & Ford Performance

Jun 2013 - Aug 2020

Program Management | Planning, Control, & Cost Lead

- Led prototype planning, part procurement, and build execution for several initial prototypes of future offroad vehicles
- Responsible for development timing, content change control, and financial impacts
- Received Tim Veenstra Excellence in Program Management Award in Feb 2019

Program Management | New Product Launch Lead

- Led product development team in the manufacturing launch of the 2019 Ford F-150 Raptor at Dearborn Truck Plant
- Responsible for several pre-production builds and rapid issue resolution over a 1 year period in the run-up to production

Powertrain Controls & Calibration | Onboard Diagnostics Engineer

- Developed, analyzed, and calibrated in-use performance monitors and diagnostic trouble codes (DTC's) for gasoline engine vehicles

Program Management | Launch Support & Special Projects

- Supported 2017 Ford F-150 Raptor relaunch at Dearborn Truck Plant
- Led special marketing build for the reveal of the Raptor at 2016 Beijing Auto Show
- Led development project on a Ford Performance Drift Stick for Focus RS

Electrified Powertrain | Hybrid Battery Calibration Engineer

- Analyzed lithium battery cell capabilities and calibrated control software for hybrids
- Commonized battery cell calibrations across Ford electrified products

Research & Innovation | Battery Materials Engineer

- Created a program and test method for continuous aggressive cycling (charge and discharge) of automotive-grade lithium ion battery cells
- Developed teardown and X-ray technique for characterizing battery cell degradation
- Developed and tested new materials and processing techniques for batteries

Institute for Particle Technology, TU Braunschweig

May 2012 - Aug 2012

Research & Innovation | Battery Fabrication & Process Engineer

- Researched the battery cell production process including mixing, coating, and assembly
- Developed post-coating heating procedure to improve adhesion to copper substrates