Jeffrey Yeung

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Experience

Ford Motor Company, Dearborn MI

Research Engineer II, Connectivity Services for Mobility and Autonomous Applications   (9/2015 – present)

• Rapid prototyping of new technologies, sensors, and connectivity in the vehicle to enable next-gen mobility services, including Autonomous Vehicles

• Mobile and vehicle-HMI software engineering, including multi-user and connectivity technologies research

Projects

• Mobile engineer on application for Autonomous Vehicles group

• Lead on multi-user app for mobility application, in pilot phase, that will solve key business model hurdles

• Lead on in-vehicle translation app in pilot phase

• Lead on Phone as Car app for Ford Smart Mobility, exhibited live at Ford annual media conference: https://goo.gl/ytfLXK

• Finalist for Ford Connected Health App Challenge

• Lead on Android app for in-vehicle air quality management in production for China market

Miscellany

• Twice recipient of Ford Recognition Award

• Named on 13 patent applications

• Presented at international Ford research expo twice

• Authored 3 peer-reviewed journal publications

   • Yeung, J., Makke, O., MacNeille, P., and Gusikhin, O., "SmartDeviceLink as an Open Innovation Platform for Connected Car Features and Mobility Applications," *SAE Int. J. Passeng. Cars – Electron. Electr. Syst.* 10(1):2017, doi:10.4271/2017-01-1649 – preseted at SAE 2017

   • Yang, J., Chen Y., Liu Y., Makke O., Yeung J., Gusikhin O., MacNeille, P., "The Effectiveness of Cloud-based Smart In-vehicle Air Quality Management". In proceedings of 2016 IEEE Advanced Information Management, Communicates, Electronic and Automation Control Conference, October 3–5, Xi'an, China, pp. 325 – 329.

   • Gusikhin, O., Makke, O., Yeung, J. and MacNeille, P. "SmartDeviceLink Application to Intelligent Climate Control." In *Proceedings of the 13th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2016) - Volume 1*, pages 234-240.

Freelance Development

Sovereign's Capital   (12/2016 – 4/2017)

• Built and managed web app (AWS/Python/Flask) to identify leads based on data mined social media (still in use)

ICON Interactive, Ann Arbor MI

Applications Developer   (2/2014 – 9/2015)

• Implemented native mobile app development (iOS, Android) through full product lifecycle in Agile environment

• Explored and implemented new technologies with Unity on Kinect SDK for Fortune 500 clients

ECRI Institute, Plymouth Meeting, PA

Project Engineer, Health Devices Group (9/2007 – 5/2011)

• Led, designed, conducted and wrote technical reviews of commercial medical devices – published 8 times

Education

Deep Learning Specialization - Coursera (in progress)
M.S., Electrical Engineering - University of Michigan (2013)
M.Eng., Biomedical Engineering - Cornell University (2007)
B.S., Applied & Engineering Physics - Cornell University (2006)

Skills

SW: iOS • Android • Objective-C • Swift • Java • C++ • C/C# • Python/Flask • HTML/CSS • JS • PHP • SQL • AWS
Design: Adobe Illustrator • Adobe Photoshop • Adobe InDesign • CorelDraw • Adobe Lightroom
Platforms: Linux • Unity
Misc: Laser Cutter • Vinyl Cutter • Injection Molder • Waterjet CNC • Cooking Aficionado