Jeffrey Yeung

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Experience

Ford Motor Company, Dearborn MI

Research Engineer, Connectivity   (Sept 2015 – present)

• Rapid prototyping of new technologies, sensors, and connectivity in the vehicle for mobility and next-gen transportation services, including Ford Smart Mobility projects
• Named on ~30 patent disclosures, 3 peer-reviewed journal publications, 1 conference presentation
  • 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.
• Mobile/web developer for Phone as Car (see link) ride-booking enhancement architecture for Ford Smart Mobility, demoed at international tech expo, awarded Ford Motor Company Recognition Award, and exhibited at Further with Ford 2016 (Ford's annual tech trends media conference) in Cult of Disruption session:
        https://media.ford.com/content/fordmedia/fna/us/en/news/2016/09/12/further-with-ford.html
• Sole engineer on finalist entrant for Ford Connected Health App Challenge (June 2016)
• Built native Android app integrations with 3rd party air quality sensors for operations in China

Freelance Development

Sovereign's Capital   (Dec 2016 – April 2017)

• Built an application (AWS/Python/Flask) to identify leads based on data mining social media signals

ICON Interactive, Ann Arbor MI

Applications Developer   (Feb 2014 – Sept 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 (Sept 2007 - May 2011)

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

Education

University of Michigan, Ann Arbor, MI

MS in Electrical Engineering (Dec 2013) - 3.6 GPA.   Concentration: Circuits & Microsystems
• MEMS focus with background in signal processing theory and control, built 3-axis gyroscope
• Simulated and designed multiplexed MEMS acoustic wave cancer biosensor

Cornell University, Ithaca, NY

MEng in Biomedical Engineering (*May 2007*) - 3.5 GPA
• Led team to develop bioreactor controls and interface, achieving 24x throughput of commercial models at 10% cost

BS in Applied & Engineering Physics (December 2006) - 3.5 GPA

Skills
• iOS • Android • Unity • Web
• Objective-C • Swift • Java • C++ • C/C# • Python/Flask
• HTML/CSS • Javascript • PHP • MySQL • AWS (beginner)
• Adobe Creative Suite • Lightroom
• Linux • Mac OS • Windows