



Anthony Johnson

Director of Engineering and Innovation

Summary

Mr. Johnson has over 6 years of engineering experience, spanning multiple disciplines including software, systems, and project engineering. Most recently he led the technical delivery of a closed-loop, NFC-based card in Wallet for the Clipper® Mobile Solution from Notice to Proceed, to Public Launch—facilitating program activities such as requirement decomposition, technical writing, user experience and interface design, architectural and system design, software development, system integration, quality assurance and validation, user research, accessibility testing, stakeholder management, operational readiness reviews, system deployment, and operations and maintenance. Mr. Johnson’s passion for improving lives through technology has been heightened by his focus on the public transit fare collection industry and has contributed to his impressive reputation encompassing his technical ability and excellent communication.

As an avid innovator, Mr. Johnson participated in multiple hackathons and ideation sessions sponsored by his former employer, Cubic Corporation. Most notably, his team was the runner up in a company-wide competition involving multiple subsidiaries; then later contributed to the go-to-market strategy of their predictive maintenance solution. Mr. Johnson joined the Clevor Consulting Group to utilize his talent and abilities to assist transit agencies with their vision to provide excellent transportation services and deliver high-quality sustainable transit systems.

Project Experience

Clipper® Mobile Fare Payment System, Cubic Transportation Systems, Concord, CA, April 2019-July 2021

This San Francisco Bay Area mobile solution includes an iOS app, Android app, new back office, and integrations into the NFC mobile wallets: Apple Wallet and Google Pay. The integrated fare payment system was launched under the Next Generation Clipper® (C2) contract in April 2021 in a little over two years, and serves nine counties, 24 transit agencies, a retail network (market share dominated by Walgreens and Whole Foods), and over 15,000 legacy fare rules. This truth-on-card, closed-loop system was the first major deployment of the C2 contract, intended to bring accelerated value to the customers and end-users of the 9-county bay area and serves as a staging point for the future truth-on-server, open-loop system. Within 2 weeks, the payment system was averaging over \$25,000/day in revenue on the iOS virtual card network alone.

As the Lead Systems and Project Engineer for the C2 mobile project, Mr. Johnson coordinated the technical delivery of the system, directing a team of 35 engineers distributed throughout San Francisco, San Diego, Germany, Australia, and India during the design and build phase of the iOS and Android mobile applications and the Azure cloud back office. He also facilitated technical meetings with external partners to ensure integrations into the Apple Wallet and Google Pay satisfied design requirements and deployments were delivered on time.



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Singapore Thomson East Coast Line Automatic Fare Collection, Cubic Transportation Systems, San Diego, CA, October 2016-September 2018

The Singaporean Land Transport Authority (LTA) announced this line in August 2014 and is among the world's longest driverless rapid transit lines. The medium-capacity Mass Rapid Transit (MRT) line plans to be opened in 5 stages, with stage 1 having opened in January 2020. When fully operational, the MRT line is expected to serve 500,000 – 1,000,000 commuters daily.

Mr. Johnson was the lead software engineer for the automatic gate subsystem provided by Cubic. He designed, developed, documented, and delivered the gate driver software to be integrated seamlessly into the LTA's existing back-office control system. The project required close customer collaboration to ensure the 2-party system worked as intended to provide safe and efficient gate access to Singaporean transit riders. Mr. Johnson was recognized by senior leaders with the STAR Award for the timely delivery of the project critical milestone.

Work History

Systems & Project Engineer, Cubic Transportation Systems, April 2019-July 2021

Mr. Johnson's primary task was to deliver the Next Generation Clipper® (C2) program, which included the C2 mobile solution and the C2 retail solution which is planned to replace the legacy dial-up units at retail stores throughout the SF Bay Area. His technical skills and his ability to efficiently and effectively communicate earned the trust of Cubic's direct customer, the Metropolitan Transportation Commission.

Software Engineer, Cubic Transportation Systems, June 2015-April 2019

Mr. Johnson began his professional career as a Software Engineer at Cubic and was promptly assigned to projects to work directly with Cubic's customers to manage design requirements, project scopes, and system verification criteria. The software projects he was responsible for primarily involved device software engineering which included low-level device drivers and higher-level device GUI applications.

Education

Bachelor of Science, Computer Engineering, University of California San Diego, San Diego, CA, 2016

Mr. Johnson earned a B.S. in Computer Engineering at the UCSD Jacobs School of Engineering

Professional Accomplishments

2020 – Values In Practice (VIP) award for demonstrating excellence in customer satisfaction at Cubic

2019 – Cubic High Potential Program: selected among the top 2% of employees for exhibiting strong functional ability and exceeding job expectations

2018 – STAR Award for exceptional performance relating to the on-time delivery of the Singapore TEL gate prototypes at Cubic



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Project References

Project: Clipper® Mobile

Project Budget: \$11M

Employer and Role: Cubic Transportation Systems, Lead Project Engineer

Project Contact: Anthony DeVito, Cubic, Program Director, (949) 701-7652

Project: Singapore Thomson East Coast Line

Employer and Role: Cubic Transportation Systems, Software Engineer

Project Contact: Wilson Kan, Cubic, Program Manager, +65 9663-6007