

## 2021 SESSION

INTRODUCED

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### HOUSE JOINT RESOLUTION NO. 636

Offered January 28, 2021

*Commending Aquatech.*

Patrons—Delaney, Adams, D.M., Avoli, Ayala, Cole, M.L., Coyner, Helmer, Heretick, Hope, Kory, Plum, Rasoul, Reid, Simon, Simonds and Ware

WHEREAS, Aquatech, a team of students who recently attended Rocky Run Middle School in Chantilly, was the Eighth Grade First-Place National Winner of the eCybermission contest in 2020; and

WHEREAS, the eCybermission contest is an annual competition organized by the Army Educational Outreach Program of the United States Army, in which students in grades six through nine work in teams to find science, technology, engineering, and mathematics solutions to community problems; and

WHEREAS, for the eCybermission contest, the Aquatech team, composed of Saranya Gadwala, Advaith Gajulapally, Remi Ladia, and Anish Paspuleti, aimed to develop a cost-effective device that would encourage users to limit water wastage in the shower; and

WHEREAS, to achieve its objective, Aquatech made a sensor that could measure the quantity of water that had passed through a sink or shower head and integrated it with a mobile application that would track water usage and send notifications to users when they had surpassed preset thresholds; and

WHEREAS, to create its smart water sensor, Aquatech effectively employed devices such as a hydroelectric generator, a hall-effect sensor, a lithium polymer battery and charger, and a Wi-Fi microchip, while masterfully developing a custom computer program and mobile application, demonstrating an understanding of electrical and computer engineering beyond their years; and

WHEREAS, Aquatech received \$5,000 for winning the eCybermission contest, enabling them to expand upon their prototype so it may be used in real-world applications for the benefit of the community; and

WHEREAS, Aquatech's success is the result of the hard work and creativity of its team members; the support and guidance of their parents and mentors, including members of the electrical and computer engineering department at George Mason University and Fairfax Water; and the unwavering support of the entire Rocky Run Middle School community; now, therefore, be it

RESOLVED by the House of Delegates, the Senate concurring, That the General Assembly hereby commend Aquatech for being named eCybermission's 2020 Eighth Grade First-Place National Winner; and, be it

RESOLVED FURTHER, That the Clerk of the House of Delegates prepare copies of this resolution for presentation to Saranya Gadwala, Advaith Gajulapally, Remi Ladia, and Anish Paspuleti, members of Aquatech, as an expression of the General Assembly's high esteem and admiration for their accomplishments.

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