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HOUSE JOINT RESOLUTION NO. 262

Offered February 13, 2018

Commending Park View High School.

Patrons—Bell, John J.; Senator: Black

WHEREAS, in 2017, the students, faculty, and staff of Park View High School worked together to build a high-tech learning tool, the augmented reality sandbox; and

WHEREAS, two Park View High School teachers, Allan Edwards and Tom Wellington, discovered the augmented reality sandbox, which consists of a 3D camera that maps the terrain of a sandbox and translates it into a 2D topographical map which can be projected onto a screen or smart board; it is a useful tool for teaching geography and the way geographic formations have affected historical events; and

WHEREAS, the teachers also discovered open-source plans and code, posted online by a University of California-Davis student, which allowed them to create the augmented reality sandbox; they worked with the Loudoun Education Foundation to achieve a classroom grant for Park View High School to build its own augmented reality sandbox; and

WHEREAS, the project required cross-curricular collaboration among the students of Park View High School, with the leadership and guidance of science teacher Pete Randall, engineering drawing teacher Kurt O'Connor, manufacturing teacher Greg Mitchell, technology resource teacher Steve Norman, and principal Kirk Dolson; and

WHEREAS, students from the Park View High School Advanced Placement computer science class worked with engineers from Rockwell Collins to build the device's computer, while other students planned the sandbox using a 3D modeling program; and

WHEREAS, Park View High School manufacturing students constructed the sandbox, ensuring that the device could easily fit through classroom doors and the elevator; used a laser engraver to create a plaque with sponsor names; and painted the device in the school colors of red, white, and blue; and

WHEREAS, a systems integration team combined all of the components and installed the software, optimizing the device to ensure that it was easy for Park View High School teachers to use and that the camera would not need to be recalibrated when the device was moved; and

WHEREAS, the students, faculty, and staff of Park View High School unveiled the augmented reality sandbox at a special event on May 23, 2017, and they were invited to share the results of the project with other Loudoun County Public Schools and at the Inspire Loudoun conference on June 14, 2017; now, therefore, be it

RESOLVED by the House of Delegates, the Senate concurring, That the General Assembly hereby commend Park View High School on the completion of its augmented reality sandbox; and, be it

RESOLVED FURTHER, That the Clerk of the House of Delegates prepare a copy of this resolution for presentation to Park View High School as an expression of the General Assembly's admiration for the hard work of the school's students, faculty, and administration in building a unique learning tool.

INTRODUCED

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