



Villa Park Rotary Club



DISTRICT GRANT PROJECT PROPOSAL

Foundation for Proposal

Per the Rotary International and Villa Park Rotary Club ("VPRC") Website, since 1910, the Rotary Motto has been "Service Above Self." Rotary strives to achieve its objective of "Service Above Self" through activities in four primary areas, or the *Four Avenues of Service*.

Under the "Vocational" avenue, our own site provides that:

"This area represents the opportunity that each Rotarian has to represent the dignity and utility of one's vocation as an opportunity to serve society. Rotarians promote and foster high ethical standards in business and professions and promote the recognition of the worthiness of all useful occupations."

Because the Vocational Avenue of Service is strongly based around our professions and VPRC has done so much with our other local schools so that students can explore various vocations, that served as inspiration for this project.

PROJECT TITLE-

"MakerSpace in Villa Park Elementary"

Goal

To create a learning environment that will lay a foundation for various vocations that student may want to explore and learn more while also becoming better prepared for future grade and education levels.

Background

In the Villa Park area, all schools but 1 have a STEM or STEAM lab. The focus has been to expose and prepare students for various vocations and careers paths. Villa Park Elementary has not been able to achieve this level of education due to lack of funding.

Maker Spaces and Stem labs are the necessity for education in the new millennium. To stay with the times and offer students all the opportunities possible, Villa Park Elementary (VPE) is working to build a "MakerSpace." MakerSpace follows the same structure as a STEM lab but allows for more vocation opportunities such as sewing and cooking. VPE is a K-6 elementary school that serves 640 students. We would like to offer our students the advantage to grow, learn and have opportunities to reach their goals or explore new ones.

Villa Park Elementary would like to elaborate on our Makerspace. Currently the space is set up in the library with a “mobile” space. VPE has a cart with tools and materials that the teachers and student roll out when it is “Maker Club” time. When time is over they must put everything away and as the space is needed for library. VPE would like to create a permanent space for the MakerSpace education. The school has a space in mind for a dedicated Maker Space. It is an area of 16’X16’ giving us 256 square feet of workspace. This would be a wonderful space for students to work freely and store a project safely.

Villa Park Elementary has an enrollment of 640 students. Currently there are 45 upper graders (grades 4-6) and 35 Lower graders (grades 1-3) that are in our Maker Club. The upper graders come in and work on projects such as robot design, computer programming, sewing and designs for a 3d prints. Currently most of them are enjoying taking things apart to see how they work. With the lower graders, they have more specific projects. They construct them as a group and then practice with the results. The Maker club students are very motivated and rarely miss their Maker Club time.

For the students to grow, VPE needs to expand and have some dedicated supplies. Currently the Maker Club is running from donations of unused items donated by the school community. Any supplies they need, the teacher is purchasing herself.

VPE has many needs to move the Makerspace forward. Not having a dedicated spot now creates quite a challenge. For the new space, they would like to have a Makerspace where students could drop in and work when they have free time. To do this, they are in need several things.

Maker Space and Stem Lab are the tools of the future. Many surrounding schools have a stem lab or Maker Space. VPE would love to be competitive and perhaps surpass the expectations of Maker Space. VPE would like to offer after school programs and open our doors for students to explore their potential.

VPE currently has 6 touch screen computers and some tools to currently function. To grow into a functioning space, VPE would like to create a designated space with tools and supplies such as a 3-D printer, tools for Arduino, electrical components, and robotics.

VPE also encourages Rotarians from different Vocations to share and teach from their own experiences. This will help the kids understand more about that friend of study and be better prepared for their own futures.

Proposal

To sponsor a vocational service grant that will provide needed space and materials to create an area dedicated to the children in our community growth in knowledge around various vocations at the Villa Park Elementary School.

Once the space is created, additional and ongoing Rotarian involvement will help continue to growth and learning’s with real life and hands on experiences. The Villa Park rotary club has been extremely involved at the school with career days, visits, and many interactions with the children. This grant would provide and great way for the kids and the Rotarians to connect to

each other through the use of the MakerSpace equipment and a dedicated area with a focus around various vocations.

The School principal has visited our club numerous times and is also working on the possibility of joining VPRC. She is focused on exploring all the different ways to help kids get excited about education. She has created many extra activities with her limited budget by partnering with our club and well as volunteers.

Cost(s)

Total amount-**\$4,798.29**, broken down as follows:

A. MakerSpace Equipment

1. Wood(Maple) Work Table 48X36x13/4 (2 total @ \$308.00 ea) \$616.00
2. Steel top Work Table 48X36 (1 @ 246.00)
3. Padded work stools (12@ \$51 for a total of \$612.00)
4. Work Lights (4 @ 29.09 ea for a total of 116.36)
5. Us Art Supply Cutting Mats (2 @ 29.96 for a total of 59.92)
6. Traffic Master Floor Mats (6 @17.97 for a total of 107.82)
7. Storage Shelf with bins (1 @ 114.48)
8. 6-Level Corner Shelf storage (1 @ 99.98)
9. MASALING USB laser cutter (1 @ 119.99)
10. Craftstman 9" band saw (1 @ 123.49)
11. Amazon Fire Tablet 7" (8 @ 49.99 for a total of 399.92)
12. Closet Maid 9 Cube Organizer (3 @ 65.27 for a total of 195.81)
13. Craftsman 145pc Field set (1 @ 152.99)
14. Quartet Glass Dry Erase Board 4"x8" (1 @ 137.87)
15. Black Headliner 60"x120" (1 @ 53.72)
16. Smraza Starter Electronic Kit (2 @ 13.99 for a total of 27.98)
17. Elegoo Mega 2560 project/Audrino (1 @ 59.99)
18. Allure Traffic Master Teak flooring (12 @ 24.96 for a total of 402.49)
19. Flash Forge Finder 3D printer (1 @ 444.19)
20. AIO Starter PLA (1 @ 129.00)
21. Kona Cotton Black/White Fabric (2 @ 76.40 for a total of 152.80)
22. Xtronic soldering station (2 @ 39.80 for a total of 79.60)
23. 2 Singer Simples 323 Sowing Machine (2 @ 120.99 for a total of 241.98)
24. Ragnaros 60 watt hot melt glue gun (3 @ 24.99 for a total of 74.97)

25. Mono Prie 13860 Deluxe (1 @ 299.99)
26. Hobby Motors 24DVC (10 @ 4.99 for a total of 49.99)
27. Rasbery Complete Starter kit 32G (2 @ 74.99 for a total of 149.98)
28. Little Bit Code kit (1 @ 299.95)
29. Little Bit Steam Student Kit (1 @ 299.95)
30. Lenovo Think Pad E560 (1 @ 559.95)

The follow sites and companies will be used for the purchase:

Uline

<https://www.uline.com/index?pricode=WE412&AdKeyword=uline&AdMatchtype=e&gclid=CMOU0bm3sdQCFU46gQodn0QLGQ&gclidsrc=aw.ds>

Home Depot

http://www.homedepot.com/?cm_mmc=SEM%7cTHD%7cGoogle%7c%7cBase-B-BT1-BT1&gclid=CPL7juG3sdQCFVU7gQodhAYA9A&gclidsrc=aw.ds

Amazon

https://www.amazon.com/?tag=amazusnavi-20&hvadid=160386164570&hvpos=1t1&hvnetw=g&hvrnd=338049603278886394&hvpon=&hvptwo=&hvqmt=e&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9031599&hvtargid=kwd-10573980&ref=pd_sl_7j18redljs_e

Sam's Club

http://www.samsclub.com/sams/html/best-deals/membership-deals.html?&pid=SB_acq_Google_meal&utm_source=Google&utm_medium=CPC&utm_campaign=SocialPlay&adid=22222222620309652756&veh=sem

Sears:

http://www.sears.com/?sid=isx20140327xbrand&psid=599x75341&knshCrid=173208848286&k_clickID=54137aed-9ffe-4608-a3af-c8587a5d5129&gclid=CICXjZ64sdQCFUU8gQod79ACxQ

Fabrics.com

www.Fabrics.com

MakerSpace

[https://www.schooloutfitters.com/catalog/default/cPath/CAT2690?kw_cid=makerspace&sc_cid=makerspace|PPCsearch|p|195417349193|SOGLONG1007224|21stCentury|\(Maker space\)|Google|](https://www.schooloutfitters.com/catalog/default/cPath/CAT2690?kw_cid=makerspace&sc_cid=makerspace|PPCsearch|p|195417349193|SOGLONG1007224|21stCentury|(Maker space)|Google|)

Total for supplies	\$6429.55
Tax (8%)	\$505.49
Shipping (very minimal, only some items need to be shipped)	\$67.15
Grand Total	\$7001.19

Contingency for price changes (less than 1%)	\$43.81
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Funds from VPRC	\$2023.00
Funds from matching grant for VPRC	\$2022.00
Funds from Orange North Rotary	\$1500.00
Funds from matching grant for ONRC	\$1500.00
 Total fund with grants and club contributions	 \$7045