

 **FIRST** CHAMPIONSHIP

HOUSTON April 17-20 | DETROIT April 24-27 | 2019



Building a *FIRST* Community Center

Lessons Learned from AMRoC Fab Lab

Presented by Terri & Steve Willingham of the
Foundation for Community Driven Innovation with
Scott Ertz of PLuGHiTz Live



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About Foundation for Community Driven Innovation



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The Foundation for Community Driven Innovation, **FCDI**, is a **501(c)(3) not-for-profit** organization dedicated to supporting academic achievement, economic development and the spirit of innovation through inspiring programs and active learning projects.

- FCDI is the founder and developer of the **Advanced Manufacturing & Robotics Center (AMRoC) Fab Lab**,
- FCDI produces **ROBOTICON Tampa Bay**, an annual youth STEAM Showcase event and
- FCDI produces **Gulf Coast MakerCon**, Tampa's original Maker Festival
- FCDI **facilitates fiscal sponsorship** of competitive STEAM (Science, Technology, Engineering, Manufacturing/Math) K-12 teams.
- FCDI is a **member of the Advanced Robotics for Manufacturing (ARM) Institute**, the Urban Manufacturing Alliance and the Fab Lab Hub.

Building a *FIRST* Community Center



In this presentation, we'll share a road map that can help build a *FIRST* Community Center in your area

Developing
Awareness

Growing
Partnerships

Sourcing
Space

Social
Enterprise
Model

Developing
Meaningful
Programming





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About AMRoC Fab Lab

Some Background



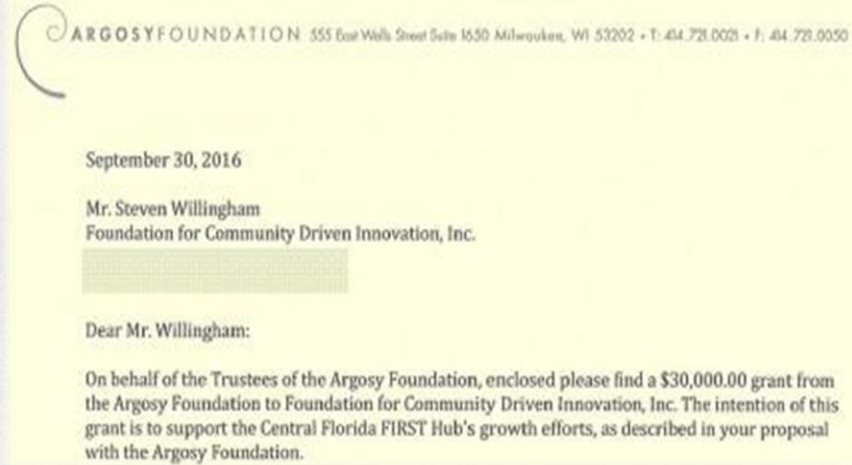
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- Project inspired by success and community impact of ROBOTICON
- Seeded by \$30,000 Argosy Foundation Grant
- *FIRST* Robotics Competition field locally built
- 4-county search for suitable property
- Joined ARM Institute in 2017
- Mall property offered in September 2018
- Started build out in October, with “soft” programming underway since December
- Grand opening set for June 2019



Tampa Bay Advanced Manufacturing & Robotics Center Fab Lab



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AMROC Fab Lab is

- A social enterprise of FCDI
- Sustainable space providing K-to-Gray programming
- Anchored by a full scale *FIRST* Center



Tampa Bay Advanced Manufacturing & Robotics Center Fab Lab

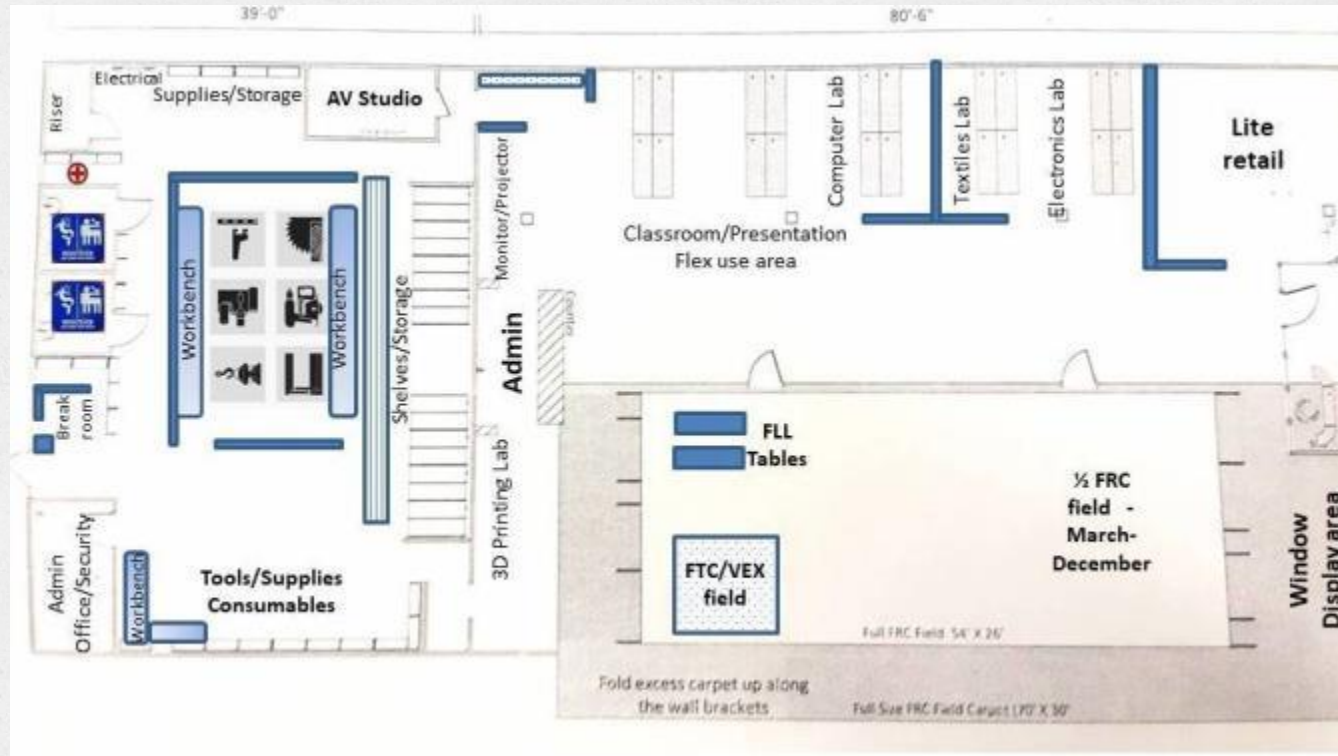


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AMRoC Specs



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The Advanced Manufacturing & Robotics Center (AMRoC) Fab Lab features:

- 7500 sq. ft. of floor space – 4000+ sq.ft open storefront space + 3000 sq. ft. separate machine shop/storage space
- Work stations and seating for 40+
- Full scale *FIRST* Robotics Comp field
- *FIRST* Tech Challenge field
- *FIRST* LEGO League tables
- Resources for *FIRST* LEGO League Jr. programming
- *FIRST* gear for all programs
- 3D printers – standard and resin
- Drill Press
- Laser Cutter
- Panel saw
- Mini-lathe
- Hand-tools
- Electronics components
- Small power tools
- CAD/CAM computer stations
- Meeting & Presentation resources
- Planned: CNC machine, mill, band saw, A/V studio, Textiles lab

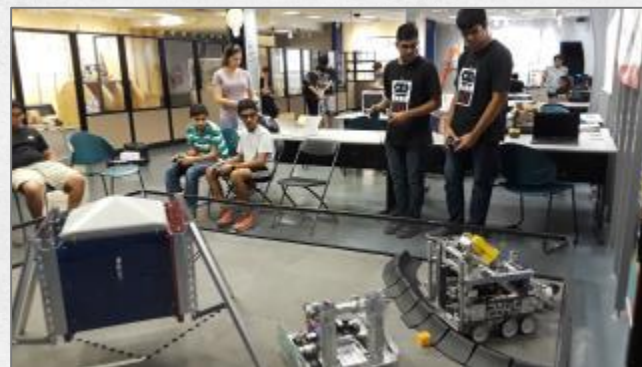
FIRST Center & More

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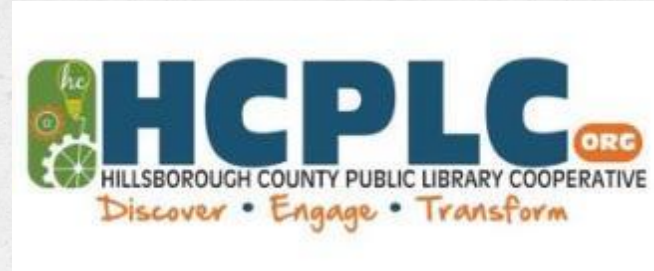
Community & Program Partners

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**FIRST Tech Challenge
R.O.B.O.T. League**



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Community Pride

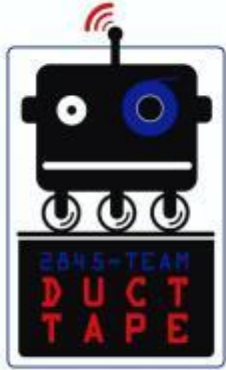


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TAMPA'S **UPTOWN** BRING YOUR ROBOT!



We can't think of any better ambassadors of Tampa's UPTOWN District to have representing us in Houston, than *FIRST* Tech Challenge Team Duct Tape, and the wonderful organizations, parents, families and friends that have supported them along the way. Their passion, aspirations and commitment represent the true nature of what the UPTOWN spirit and vision are all about. You have already won our hearts, now go have fun and pursue your dreams!



Christopher M. Bowen
Chief Development Strategist
RD Management LLC



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Planting the Seeds

ROBOTICON

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ROBOTICON Tampa Bay is:

- Now in its 7th year
- K-12 STEAM education showcase
 - featuring all four *FIRST* programs, and
 - academic, engineering and industry exhibits
 - weekend long celebration of science and technology
- Collaboratively produced with University of South Florida, in partnership with
 - Hillsborough County, FL;
 - community sponsors & Volunteers,
 - *FIRST* Alumni & Florida *FIRST* partners

Impact of ROBOTICON



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- Grown from 30 teams participating to 60+
- Direct impact to area teams of over \$10,000 funding support annually
- Direct economic impact to the community over \$75,000 annually
- Made possible the development of and support for the Tampa Bay Advanced Manufacturing & Robotics Center (a permanent *FIRST* & STEAM education center)
- Raised public awareness about *FIRST* opportunities & value
- Launched new teams across all platforms
- Launched *FIRST* Looks podcast series by PLuGHiTz Corporation, an alumni run company
- 20+ companies now involved including some of Tampa Bay's largest corporations with new mentors & volunteers as well as funding support
- Has become a favorite recruitment event for USF meeting their goals for outreach and community engagement
- Created new opportunities for apprenticeships & internships for *FIRST* Alumni
- Featured as an event of note by Visit Tampa Bay & the Tampa Bay Sports Commission

Community Involvement



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FCDI also stays in the public eye by hosting, attending or helping with programs and events including:

- Monthly Economic Development meetups
- Coding events
- County agency fairs and events
- Innovation District events and programs

Telling the Impact Story

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FIRST Looks Robotics in Action



https://patch.com/florida/seminoleheights/transformation-university-mall-urban-village-begin

Prior to the start of the demolition work, the mall will host the **FIRST Robotics Competition scrimmage** for a dozen teams. About 100 youth will converge on the mall Saturday, Feb. 16 from 10 a.m. to 5 p.m. with their 120-pound robots to practice on Florida's only full-size FIRST Robotics Competition field.

The field is the first step in developing the **Tampa Bay Advanced Manufacturing & Robotics Center (AMRoC) Fab Lab** at the mall. A program of the **Foundation for Community-Driven Innovation**, the Fab Lab is slated to open this summer but will hold periodic events and programs while construction is taking place.

The Fab Lab is designed to be a sort of incubator for young people interested in project-based project-based engineering education and training. It will also serve as a Tampa Bay FIRST robotics hub, with resources for K-12 FIRST teams.

Image via RD Management

Tampa Bay Times

NEWS SPORTS OPINION ARTS & ENTERTAINMENT SPECIAL REPORTS VIDEO PHOTO

It will provide opportunities for people of all ages to enjoy everything from personal skills development to earning professional certifications and develop needed workforce skills.

ADVERTISEMENT

The AMRoC FabLab will also serve as a FIRST youth robotics hub for Tampa Bay and Central Florida, with the only permanent FIRST Robotics Competition field in the state, along with a FIRST Tech Challenge field and FIRST LEGO League tables, resources and gear.

As part of the global FabLab community, AMRoC FabLab is committed to sharing an evolving inventory of core capabilities that will allow facility users the ability to make almost anything in a collaborative and welcoming environment.

For more information, visit AMRoCTampaBay.com.

HR Statistics



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Active & Varied Social Media

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Feb 2019 - 29 days

Tweet Highlights

Top Tweet earned 642 impressions
Nice look at @TampaBayInmaker community w/ great insights from friends @HackTampa, @SPeteMakers & the @TheHiveTHPL. Public creative spaces like these & @AMROCFabLab are important economically, academically & socially. Others incl @PascoLibraries & other: @TBLCInmakerspaces twitter.com/TampaBayInno's...

Top mention earned 31 engagements
FTC Team Duct Tape @TeamDuctTape Feb 26
We're inviting @FUFTC teams heading to #FIRSTChampsHouston to a Scrimmage at @AMROCFabLab @1477SuperT @KNO3Robotics @MasqueradeFTC @hhsrobots @3101Boombots #S1GearsOfFire #GoTeamFL @FTCTeams @FIRSTweets pic.twitter.com/v23jz17d

FEB 2019 SUMMARY
Tweet impressions: 10.1K
New followers: 14

ROVER RUCKUS
Houston FIRST Championship
FL Robotics Scrimmage at AMROCF
March 20, 2019
March 20, 2019

Page Summary Last 28 days + Export Data

Results from Feb 25, 2019 - Mar 24, 2019
Note: Does not include today's data. Insights activity is reported in the Pacific time zone. Ads activity is reported in the time zone of your ad account.

Actions on Page February 25 - March 24 1 Total Actions on Page ▲100% 	Page Views February 25 - March 24 25 Mar 2, 2019 0 Total Page Views 	Page Previews February 25 - March 24 7 Page Previews ▼38%
Page Likes February 25 - March 24 3 Page Likes ▲0% 	Post Reach February 25 - March 24 181 People Reached ▲99% 	Recommendations February 25 - March 24 We have insufficient data to show for the selected time period.
Post Engagements February 25 - March 24 84 Post Engagement ▼13% 	Videos February 25 - March 24 2 3-Second Video Views ▼98% 	Page Followers February 25 - March 24 3 Page Followers ▲0%



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Sourcing Space

Inspiration for AMRoC

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Kettering University produces more inventors per graduate than all but three universities in the country, according to a recently released study profiled in *The Economist* examining how exposure to innovation influences inventiveness.

Having a multiuse permanent space:

- Helps existing teams meet, build & practice
- Improves sustainable access & inclusivity
- Grows teams
- Provides resources & support
- Raises awareness
- Recruits more sponsors & mentors
- Creates avenues for internships & jobs



Explore Every Option

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Useful Community Development

Aspects Of Community Development:

- Beautification
- Code Enforcement
- Comm Dev Overview
- Community Organizations
- Crime Prevention
- Deed Restrictions
- Economic Development
- Housing
- Planning

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Google Custom Search

Adaptive Reuse Re-Imagines Obsolete Buildings

Adaptive reuse of a vacant building is a smart community choice for sustainable development. If you aren't acquainted with this phrase, it describes finding a new purpose for a building rather its original use, or at least the one everyone remembers. A new land use that has more market demand is chosen and developed.



Museum of Contemporary Art, was transformed into an art museum.

Re-purposing of buildings is a simple idea for community improvement, but one that has huge potential to reduce the carbon footprint and solid waste inherent in building demolition and new construction.

Community & Economic Development

Community and Economic Development Programs

DFC initiatives are focused on strategies to encourage safe and affordable housing, stabilize neighborhood housing markets, and encourage the productive reuse of vacant industrial land and buildings. These initiatives include:

- Detroit Neighborhood Housing Compact:** In partnership with the Urban Institute, DFC is organizing a cross-sector stakeholder group focused on strengthening the single-family housing market in Detroit neighborhoods, including both for-sale and for-rent market segments.
- Single-Family Rental Housing Study:** Working with the University of Michigan's Taubman College of Architecture and Urban Planning, DFC sponsored a study of single-family rental housing in two Detroit neighborhoods, including both for-sale and for-rent market segments. The study developed recommendations for incorporating safe, affordable, single-family rental housing into an integrated strategy for neighborhood stabilization and revitalization.



Hillsborough County *FLORIDA*

Residents | Businesses | Government | About Hillsborough | **NEWS** |

Non-Profit Request to use County Real Estate

Overview

Hillsborough County Board of County Commissioners' policy governs requests by nonprofit groups to use County real estate on a long-term basis (greater than 30 days). Factors affecting decisions to lease space to nonprofit agencies include substantial of a business plan, availability of space, finding a sponsoring County department, and the overall benefit the arrangement would bring to the residents of Hillsborough County.

How it Works

A nonprofit agency that wants to lease County-owned real estate should identify as a sponsor a County department or agency that would otherwise provide or benefit from the delivery of the nonprofit agency's services. The nonprofit agency and the Sponsoring Department must be able to demonstrate that the agency's services support a core County purpose and provide cost savings for the County in the delivery of services. The nonprofit will work through the



Center for **COMMUNITY PROGRESS**
Building Community with Smart Planning

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About Us

Founded in 2014, the Center for Community Progress is the only national nonprofit specifically dedicated to building a future in which equity, sustainability, and distributed prosperity are central goals.

We are the leading national nonprofit resource for urban, suburban, and rural communities seeking to address the full range of present challenges. We recognize the diverse regional needs that result, abandonment, and decline and promote future on neighborhoods and the people living in them. Including economic, social, transportation, environmental, and other factors. We also recognize the legacy of red-linemap, public, and systems that cause social inequalities to have an unfair share of the burden.



GSA

PROPERTY UTILIZATION & DISPOSAL

for Public Use

Federal real estate properties that are no longer needed by the federal government may be made available for public use to state and local governments, regional agencies, or non-profit organizations.

Public uses for properties are those that are accessible to and can be shared by all members of a community, and include community centers, schools and colleges, parks, municipal buildings and many more.

GSA's Office of Property Disposal notifies state and local agencies of the availability of any surplus federal real property that they may be eligible to acquire under certain laws. These laws allow property to be transferred to public agencies and institutions at discounts up to 100 percent of fair market value for:

- Public health or educational uses
- Public Parks and Public Recreational Areas
- Publicly owned assets

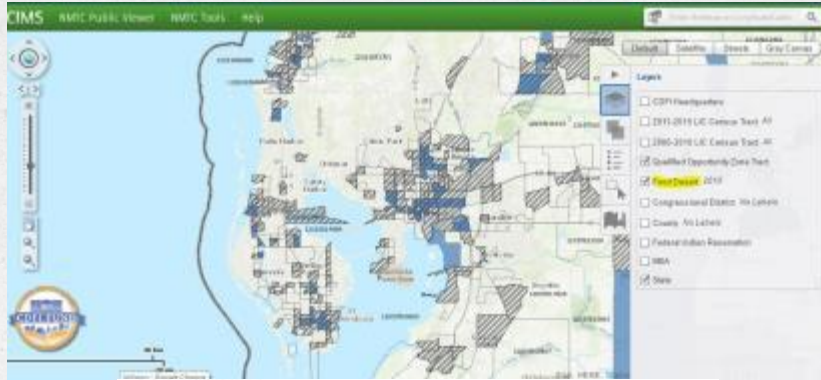
Cornerstone Properties donates Sonoma County commercial space to nonprofits



It all at Sonoma County Supervisor Shiree Jaine visited the Sonoma Peak Local Assistance Center where more than 12,000 people impacted by their received help from donors of federal, state, local and nonprofit resources.

EMILY QUAYENBACH
FOR SONOMA COUNTY BUSINESS COUNCIL, 11 March 2019

Opportunity Zones



Lat/Lon: 28.081143, -82.4360

Tampa, FL

	1 mi radius	3 mi radius	5 mi radius	7 mi radius
Race and Ethnicity				
Total Population (2018)	23,484	148,478	293,801	482,847
White (2018)	9,277 39.5%	60,362 40.7%	109,104 37.1%	174,814 36.2%
Black or African American (2018)	10,543 44.9%	46,262 31.1%	96,120 32.7%	127,741 26.5%
American Indian or Alaska Native (2018)	155 0.6%	681 0.4%	1,148 0.4%	1,718 0.4%
Asian (2018)	688 2.9%	6,079 4.1%	11,824 4.0%	18,923 3.9%
Hispanic or Pacific Islander (2018)	45 0.2%	136 0.1%	223 0.1%	287 0.1%
Other Race (2018)	1,985 8.4%	9,500 6.4%	16,196 5.5%	23,394 4.8%
Two or More Races (2018)	970 4.2%	5,536 3.7%	10,305 3.5%	15,870 3.3%
Population < 18 (2018)	6,130 26.1%	31,223 21.0%	62,438 21.2%	98,876 20.5%
White Not Hispanic	587 2.5%	6,470 4.3%	10,851 3.7%	20,826 4.3%
Black or African American	3,237 13.8%	12,686 8.5%	25,417 8.6%	34,889 7.2%
Asian	154 0.6%	1,000 0.7%	2,196 0.7%	3,597 0.7%
Other Race Not Hispanic	243 1.0%	1,384 0.9%	2,700 0.9%	4,546 0.9%
Hispanic	1,876 8.0%	9,721 6.5%	18,273 6.2%	31,686 6.6%
Not Hispanic or Latino Population (2018)	30,011 66.2%	186,776 125.2%	317,216 108.0%	526,090 109.0%
Not Hispanic White	4,999 16.3%	30,011 16.1%	116,303 36.8%	179,518 34.1%
Not Hispanic Black or African American	9,657 31.9%	42,987 23.0%	80,627 25.4%	118,096 22.5%
Not Hispanic American Indian or Alaska Native	88 0.3%	353 0.2%	676 0.2%	988 0.2%
Not Hispanic Asian	963 3.2%	5,846 3.1%	11,669 3.7%	17,845 3.4%
Not Hispanic Hispanic or Pacific Islander	41 0.1%	113 0.1%	173 0.1%	208 0.1%

An Opportunity Zone is an economically-distressed community where new investments may be eligible for preferential tax treatment.

More information - <https://bit.ly/2lh8m4a>

- Opportunity Zones have now been designated covering parts of all 50 states, DC, and five U.S. territories.
- Opportunity Zones are an economic development tool— they are designed to spur economic development and job creation in distressed communities. - <https://www.cdfifund.gov/Pages/Opportunity-Zones.aspx>

Swing for the Fences



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Too Little...



...Too Big



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Just Right University Mall, Tampa

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Mall Magic



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1. Malls as lifestyle centers

The question of what happens next is an intriguing one. One popular idea is that the malls will evolve into lifestyle centers, offering a wider range of options for visitors than simply shopping, eating and movies.

“The mall is not dead, just changing. Give it a minute to get decent.”

Marshal Cohen
Chief Industry Analyst, Retail, NPD Group

4. Malls as mixed-use spaces

Malls do not, of course, need to be only one thing. As retailers continue to explore options, there may be spaces that end up serving multiple purposes.

“There’s 1,200 malls in America, and class B and C malls are about a third of the inventory,” Glenn Brill, managing director at [FTI Consulting](#), a financial advisory corporation, told Retail Dive. “So there’s a lot of retailers looking at their footprints, and there’s stores closing. Having worked for a developer, I understand the dilemma. A mall is roughly 110 acres. It has power, water, a ring road, a huge parking lot. All that infrastructure has been built and permitted, and in place, so you have two scenarios. You can attempt to reuse the existing structures, or you can scrap them.”



The secret to success, as identified by Vintage Real Estate and other retail investors, is to turn malls into retail destination hotspots with ease of access to everything one might need. That is why mall repurposing is pursuing the route of replacing vacant renting spaces with fitness centers, food courts, grocery stores, as well as extra space for events, classes and activities for all ages.

RD Management



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University Mall
2200 East Fowler Avenue & Bruce B. Downs Blvd., N 30th Street, Tampa, FL 33612

Location
University Mall is located in Hillsborough County at 2200 East Fowler Avenue & Bruce B. Downs Blvd., N 30th Street in Tampa, FL 33612

Type
Regional Mall

Size
±1,332,205 SF

Parking
6,522 Cars

Major Tenants
Dillard's 143,614 SF
Burlington 101,193 SF
Grand's 90,000 SF

Description

- University Mall, a member of Tampa 'p, is in the midst of a significant transformation into a mixed-use facility to include: retail, entertainment, hospitality, education, medical, office & residential
- Area employers: University of South Florida, H. Lee Moffitt Cancer Center, VA Hospital, Florida Hospital, Shriners's Hospital, Busch Gardens
- Studio Movie Grill with 14 screens & 2,000 seats, an upscale experience with in-

Demographics	3-Mile	5-Mile	7-Mile
2023 Projection Population	165,965	328,438	516,712
Households	64,775	128,449	199,111
Avg. HH Income	\$46,815	\$65,243	\$68,234

Considerations



- **Zoning & Permitting** – change of occupancy designation may require some research and additional costs and Fire Marshal approval
- **Ease of adaptation** - Evaluate the challenges of retrofitting spaces to accommodate equipment, storage and ventilation
- **Hours** - Consider accessibility, parking, available days/hours vs after hours availability
- **Access** - In a mall, controlled access is another consideration, balanced with welcoming openness



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Operational Structure

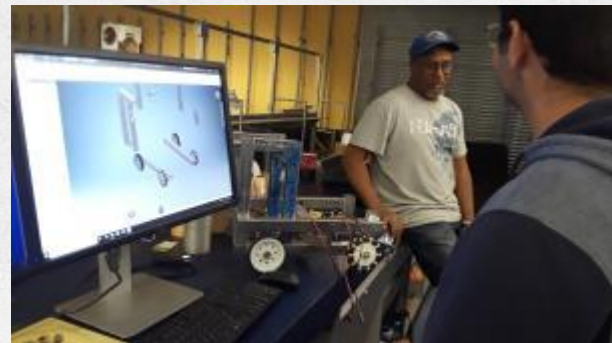
Clean -> Dusty Layout

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Culture



Once you have space there are a few important considerations in making it effective, safe and sustainable.

AMRoC Fab Lab is a safe and inclusive space, where all are welcome regardless of sex, race/ethnicity, sexual orientation, gender identity or expression, cultural background, age, or physical or mental ability; a place where the rules guard each person's self-respect and dignity and strongly encourages everyone to respect others.

Document and keep within easy reach and open access:

- Mission & Goals
- Code of Conduct
- Facilities Use Rules & Requirements
- Safety Guidelines
- Scheduling Processes
- Costs

Programming



Things that need to be taken into consideration with STEM center programming:

- **Assessing community needs** – *FIRST* center only , or combined community programming?
- **Accessible and Inclusive** – with both space & programming; good signage, accessible tools & resources
- **Costs** – Free or Fee-based?
- **Scheduling programming** –separating noisy activities from quiet ones, machine use away from computers, etc.
- **Working a *FIRST* season** – keeping deadlines and overlapping programs organized, coordinating mentors and training
- **Evaluating success & value/gathering metrics** based on return usage, applied knowledge, job placement, certifications
- **Agile and adaptive** space use that adapts as needed





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Achieving Sustainability Through a Social Enterprise Model

Social Enterprise



Nonprofits **can** engage an earned income venture, selling goods or services to diversify its funding base while providing positive impact in the community.



Examples: Girl Scout Cookies, Inside the Box Catering run by Metropolitan Ministries Homelessness Services, Goodwill stores

More funding sources:

- Membership & Use Fees
- Sponsors
- Grants
- Naming Rights
- Goods & Services
- Space Rental
- Professional Development
- Micro-manufacturing

Fiscal Responsibility



Fiscal responsibility makes for sustainable social good!

Sample team fees – Queen City Robotics

FRC Teams:

- \$20 per hour
- \$100 per day including use of field & shop
- \$650 per month during build season including use field & shop

FTC Teams:

- \$20 per hour
- \$50 per day including use of field & shop
- \$125 per month including field & shop

FLL Teams:

- \$300 per season

- Structuring Costs
- Paying Staff
- Maintaining Affordability & Access
- Keeping the Doors Open
- Earned Revenue



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Building & Maintaining Collaborative Community Partnerships



From ROBOTICON to AMROC

Relationship building takes time but consistency and a good track record pays off!

Seven years later, program partners include:

- USF
- Hillsborough County
- Lockheed Martin
- Jabil
- JP Morgan Chase
- SOFWERX
- Florida High Tech Corridor
- USF Research & Development

And interest and support from:

- The ARM Institute
- The USF Innovation District
- Hillsborough County Extension Services
- Hillsborough County Economic Development
- Hillsborough County Children's Services
- Business Center for Diversity & Inclusion



Lather, Rinse Repeat

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- Build on Past Relationships & Successes
- Celebrate Partners Regularly
- Cultivate New Collaborations

Stephen Gran gave me your contact information regarding a possible partnership to bring more robotics and STEM programming and resources to the youth in Hillsborough County. We'd love to learn more about you and your business and how we can work together. I've copied my co-agent, Brandi Nancy, on this message. If there's a time that we could set up a phone call or in person meeting, please let us know.

We look forward to hearing from you and finding ways to partner together.

Have a great week!

Charles K. Poliseno
4-H Extension Agent
UF/IFAS Extension Hillsborough County

With Gratitude to our Sponsors and Partners:

Hillsborough County Florida

AFCEA • Sourcecad • WITI • Ip • Women in Defense

Thank you to our FIRST Program Partners:
ROBOTICON League of Tampa Bay and First Florida Robotics

ROBOTICON Partner Spotlight: Meet JPMorgan Chase!

Sep 7, 2018

JPMorganChase

JPMorgan Chase is proud to support the ROBOTICON Program for the second year in a row. The Firm is one of Tampa Bay's largest employers with more than 3,000 employees working locally across all of its lines of business – including nearly 2,000 technologists. It serves consumers and small businesses through more than 50 local branches and 200 ATMs. In addition, the firm has invested more than \$2 million in workforce initiatives to help young people in Tampa Bay gain the skills needed to meet the region's growing demand for skilled workers.

BTW: Why is your organization supporting ROBOTICON Tampa Bay?

JPMC: We believe in setting an example for our community, and supporting those who go above and beyond. We strive to support students in pursuing their passion, whether it be through external programs (such as ROBOTICON), or our own internal programs (One Hour of Code), where we travel to local High Schools and teach students how to code. We believe in not only supporting ROBOTICON, but our youth in the community.

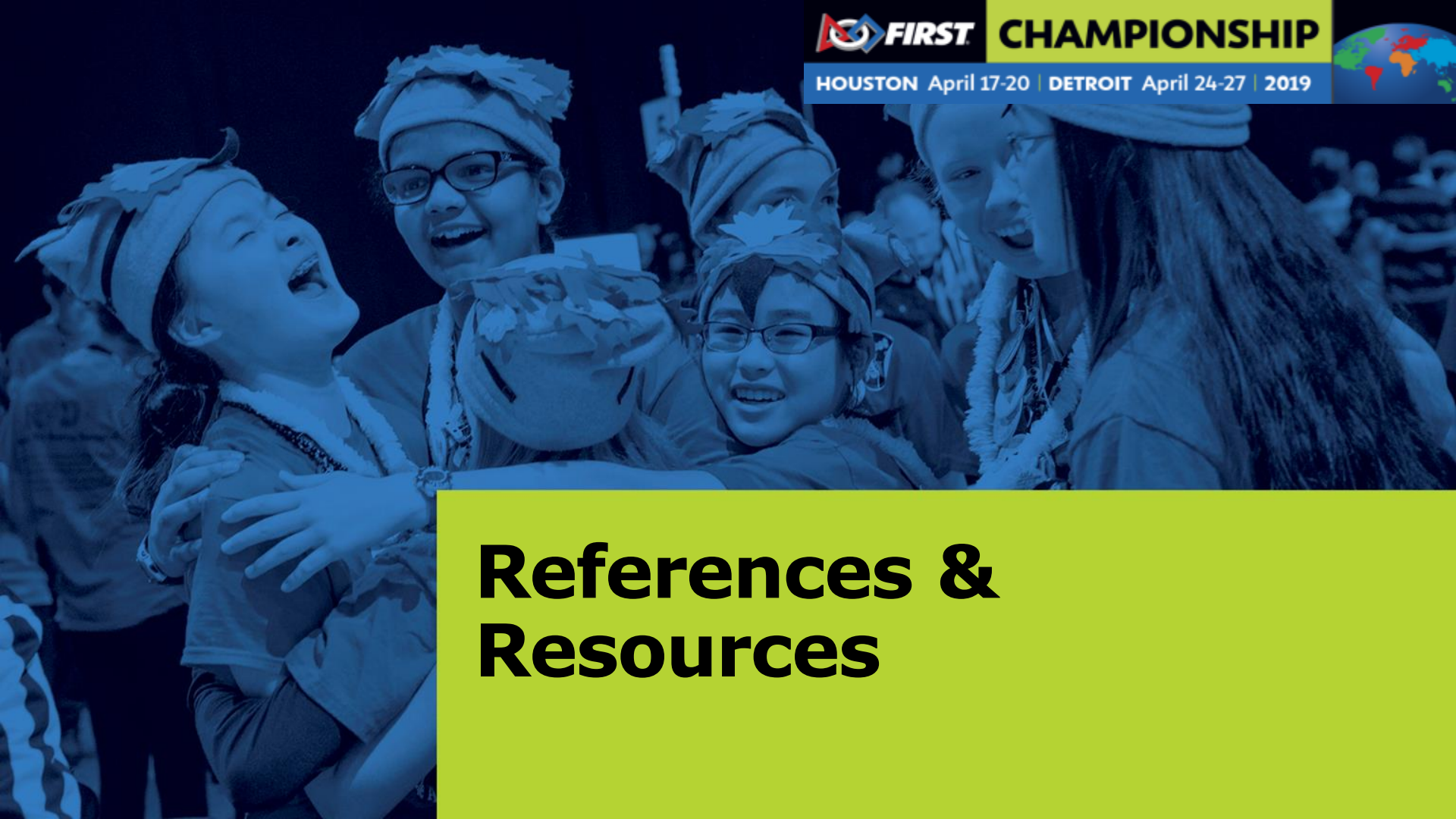


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References & Resources

Other *FIRST* Centers



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The **Kettering University *FIRST* Robotics Community Center**, in Michigan, opened in 2014. The Center is the first of its kind on any university campus in the country, and provides work areas for *FIRST* teams, a regulation size practice field and a lab with machining tools and software.



kettering.edu/about/first-robotics

The **Mary Baker Smith Career Center**, part of the **Lafayette Parish School System (LPSS)** is focused on design & manufacturing, with a robotics & programming lab, machine lab with CNC Mills & CNC Routers, a 3-D printing lab & the states only permanent *FIRST* Robotics Competition field.



queencityrobotics.org

The ***FIRST*® Zone – Charlotte** was created by the three teams forming the Queen City Robotics Alliance: Bots of War #4290, T-Rex #4935, and YETI # 3506. The Zone is 5,000 sq ft. containing a workshop, team storage, competition fields for FRC and FTC and FLL. The space is open to teams in North & South Carolina.



lpssonline.com/site1449.php

Resources



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- Creative Uses for Downtown Buildings - <https://fyi.extension.wisc.edu/innovativedowntownbusinesses/files/2017/03/Creative-Uses-for-Downtown-Buildings-030317.pdf>
- Community Progress - <https://www.communityprogress.net/>
- Repurposed Architecture - <https://architizer.com/blog/inspiration/collections/repurposed-architecture/>
- Repurpose Project - <https://ilsr.org/the-repurpose-project-building-community-through-reuse/>
- Community Guide to Repurposing Vacant & Underutilized Historic Buildings - https://www.mhpn.org/wp-content/uploads/2012/08/A_Community_Guide_to_Repurposing_Vacant_and_Underutilized_Historic_Buildings_FINAL.pdf
- Splitting Big Box Stores - https://www.tulsaworld.com/business/real-estate/addition-by-division-splitting-big-box-stores-becoming-commonplace-in/article_7bf459b9-e9c1-57ec-b472-0d403f8e4a46.html
- Shopping Malls Repurposed - <http://www.rdtaxsavers.com/articles/Shopping-Malls>

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- Innovative Funding Programs for Placemaking - <https://www.pps.org/article/innovative-funding-programs-for-placemaking>
- Opportunity Zones - <https://www.cdfifund.gov/Pages/Opportunity-Zones.aspx>
- Urban Manufacturing Alliance - <https://www.urbanmfg.org/>
- Society of Nonprofits – Earned Income: <https://www.snpo.org/funding/earnedincome.php>
- Mary Baker Smith Career Center, Lafayette, LA - <https://developinglafayette.com/wp/robotics-programming-3-d-production-machinery-are-all-highly-prioritized-at-w-d-mary-baker-smith-career-center/>
- Charlotte *FIRST* Zone - <http://queencityrobotics.org/>
- Library Makerspaces: The Complete Guide (Rowman & Littlefield, 2017), Theresa Willingham – for Makerspace/Fab Lab best practices

Questions? Comments? Connect.



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Foundation for Community Driven Innovation

FFCDI.org

Steve@FFCDI.org or Terri@FFCDI.org

Advanced Manufacturing & Robotics Center Fab Lab

AMRoCTampaBay.com

fablabs.io/labs/amrocfablab

ROBOTICON

ROBOTICON.net

***FIRST* Looks**

FIRSTlooks.tv

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