



## **CCC Maker Final Quarterly Report for April to May 2019**

Colleges collectively reached the goal of 800 internships as more makerspaces came online this past school year and internship preparation programming grew in practice. Activities surrounding the makerspace lead to increased student and employer engagement building the ecosystem of shared experiences for an adaptable workforce. Colleges continued to use the internship opportunities to challenge students to meet community or employer expectations; as in the case of College of Alameda's collaboration with Elder Care Alliance where students developed simple art and maker projects which were then utilized at local retirement communities to teach seniors or Cabrillo College's scalable team internship approach of Makermatic, where the students addressed the business challenge posed by Craig Calfee of Calfee Design ([calfeedesign.com](http://calfeedesign.com)) for bringing the Calfee Streamliner electric trike vehicle prototype to market. Both methods of partnerships demonstrate a complementary relationship with the student, employer and institution since such models create an ongoing engagement for future students and furthering the business or organization's mission.

Makerspace usage continued to grow in the last partial quarter of the grant. Considering that the month of June 2019 was not included in the final value of 13,811 student interactions, it is conceivable to expect to surpass the previous complete quarter since it would only require 6% more student interactions which is approximately 150% growth from a year ago. The actual final count of student interactions was over 63,000 with an average of 3 hours per interaction.

To connect the CCC Maker colleges to a national innovation network, CCC Maker engaged the National Association of Community College Entrepreneurship (NACCE) to partner in delivering the make/SHIFT Makerspace Ecosystem Summit in Irvine CA from April 24-26. From college presidents to student makers, nearly 250 attendees from across the country agreed that campus makerspaces are transformative. These welcoming, inclusive & inter-disciplinary spaces offering community, tools and experience have proven to be a practical way to prepare students with adaptable maker and entrepreneurial career skills. With an unprecedented 19 students participating in panels and then displaying their projects and posters during the reception, the event celebrated the potential of students emerging from college makerspaces. The summit also provided a platform for those in the CCC Maker network to share the most effective methods to build and manage college makerspaces as well as exchange ideas to solidify support from the ecosystem. A series of videos premiered about seven of the CCC Maker college makerspace communities and depicted the various approaches used to design makerspaces suited to their ecosystems.

The project held a culminating event and celebration at the Bay Area Maker Faire on May 17-19, 2019. On Friday, May 17, 10 students from 7 community colleges participated in a Student Showcase, lead by Folsom Lake College student and makerspace coordinator Nicole Shuman. Student speakers shared their projects and professional growth experiences through the makerspace experience at their campus, and then received comments and supportive affirmations from a team of mentors. <https://cccmaker.com/students-tell-stories-at-maker-faire/> Mentors included Kevin Cobb, Principle of AP Architects, Denise Bushnell, Professor of Computer Science at Sierra College, and Brian McKeown, a CCC Maker advisory committee member. A premier of a new CCC Maker video was featured at the event: The Impact & Potential of College Makerspaces <https://youtu.be/oH12p18xRXc>

At the 2nd annual CSU Maker Convening, held at Sonoma State University on May 30 and 31, 2019, CCC Maker presented six workshops including an update on the Statewide Project, the MakerMatic cohort-based internship model, Cabrillo College on Work Based Learning, Moorpark College on strategies for creating a welcoming makerspace environment, Folsom Lake College on student-led makerspace strategies, and Laney College on Fab Lab success strategies. In 2020, the event will be held at CSU Sacramento.

The 4th annual ISAM convening will be held at Yale University on October 17-19, 2019. Two professional papers were submitted and accepted for presentation: Hacking Maslow: Assessment, Scale, and Survival of a Statewide Community College Makerspace Network in California, Lindsey and Bird authors; and Finding Middle Q: Sierra College's Public-Private Makerspace Partnership as a Strategy for Workforce Development, Pepper-Kittredge author.

CCC Maker created several publications to further the body of knowledge on how to start a college makerspace, strategies for college makerspace implementation and two resources for those interested in basing Makermatic Team Internships in their makerspaces. The publications are available via the website. 1.) The California Community College Startup Guide: Preparing Students for Jobs of the Future 2.) California Community College Makerspace Impact: Implementation Strategies & Inspiring Stories of Transformation 3.) Makermatic Workbook for Coaches 4.) Makermatic: A Scalable Approach to Team Internships

In April and May, there were 3211 <https://cccmaker.com/> website users and of those 3068 were new users. This is a 57% growth when compared to 2066 users and 1946 new users during the same two-month time period one year ago; and there were 38 blog posts added to the CCC Maker website. CCC Maker posted 2344 tweets, has 825 followers and 2615 likes on Twitter. <https://twitter.com/cccmakerspace>. CCC Maker has 911 likes and 952 Facebook followers. <https://www.facebook.com/CCCMaker>



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