

TECHBRIDGEWORLD



Carnegie Mellon®

Carnegie Mellon has a long tradition of reaching out to underserved communities in need of innovative solutions for solving basic problems. The students, faculty, and staff who make TechBridgeWorld possible are among the finest examples of this commitment in our academic community. Their projects have had meaningful impact and continue to improve the quality of life for many where the need is the greatest.

Dr. Jared L. Cohon, President
Carnegie Mellon University



President Cohon with TechBridgeWorld students, Fall 2009.

TechBridgeWorld is a powerful example of the best that Carnegie Mellon has to offer. This initiative allows some of the most talented, tech-savvy, young people in the world to put their expertise to work on behalf of some of the most underserved populations around the globe. The world NEEDS more programs and people like those involved in TechBridgeWorld.

Robbee Baker Kosak, Vice President for University Advancement, Carnegie Mellon University

The School of Computer Science is proud to have effective outreach projects like TechBridgeWorld that involve students of all levels and backgrounds. TechBridgeWorld has opened up opportunities for students to apply their technical skills to parts of the world that are struggling with basic issues of education and health. Bernardine Dias has provided exceptional leadership and her research implies that technology, correctly applied and integrated, can make a critical difference in the lives of those who are struggling to overcome great hardships.

Dr. Randal E. Bryant, Dean, School of Computer Science, Carnegie Mellon University



Celebrating Five Years of Technology with a Global Heart

2004 - 2009

We dedicate our anniversary celebration and this commemorative book to the many partners, sponsors, students, alumni, advisors, faculty, staff, volunteers, and supporters who have committed their time and energy to making the work of TechBridgeWorld possible. We are especially grateful to our colleagues at Carnegie Mellon University for their constant support of our efforts.

Our Mission and Vision

TechBridgeWorld works closely with developing communities to create the essential technologies that will help them tackle their long term challenges. We employ the knowledge and imagination of our faculty, staff and students in our projects. By working closely with local partners who understand the needs of the community, we contribute our technical expertise to help realize the community's vision of development. We do this by inventing new tools, customizing existing technology, and inspiring the community's future technologists.

www.TechBridgeWorld.org



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Dr. M. Bernardine Dias | Founder and Director
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A Message From Our Director



TechBridgeWorld Founder and
Director Dr. M. Bernardine Dias

Our fifth year anniversary is a significant milestone for the TechBridgeWorld team. As TechBridgeWorld's Founder and Director I am incredibly proud of how much we have learned and accomplished since we began this ambitious endeavor. Our journey over the past five years has certainly been informative, has often been challenging, and has always been exciting. We remain firmly committed to our guiding principles of respect and empowerment, always working with local partners and staunchly dedicated to empowering both consumers and creators of technology in underserved communities.

While the true impact of our work will not be fully evident for another decade or two, we already have many reasons to celebrate. First and foremost, I am indebted to the amazing team that keeps TechBridgeWorld moving forward.

Our dedicated, talented, and passionate Executive Board members continue to realize our mission through their hard work and creativity. The success we enjoy would not have been possible without the unwavering support of our Advisory Board. We are also grateful to the many sponsors, partners, volunteers, and well-wishers who play a crucial role in our success.

Among the many reasons for celebration, the number of communities in which we have made a positive difference, and the number of students who have benefited from our programs have special significance to us. Our partners have taught us invaluable lessons and have been our champions in many communities around the world. Many of our partnerships have continued long past our first projects and our partners have encouraged others to join our fast-growing network. Our students have demonstrated courage, leadership, creativity, and enthusiasm in the face of many challenges while working with us to design, implement, and deploy technology solutions to meet the needs of many communities. They are the change agents who will truly realize our mission in the future.

It has been an honor to lead TechBridgeWorld in our many adventures over the past five years and I look forward to the exciting possibilities that await us in the future.

Dr. M. Bernardine Dias

Founder and Director

Assistant Research Professor, Robotics Institute

Carnegie Mellon University



Highlights From Our First Five Years

Fall 2004

TechBridgeWorld founded

Courses established



Summer 2006

Education e-Village
conceptualized



Summer 2005

Project Kané launched
with pilot study in Ghana



V-Unit created
for graduate students

Spring 2005



Braille Writing Tutor developed
with school in India

Spring 2006

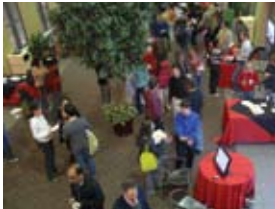


Pittsburgh-Doha
collaboration begun
through faculty, staff,
and student interactions

Spring 2007

Fall 2007

TechBridgeWorld Interactive
first held as annual event



Summer 2008

First research grant received:
Qatar National Research Fund
supports assistive technology work

Spring 2009

ICTD 2009 hosted at
Carnegie Mellon
University in Qatar



First undergraduate thesis
project completed with student
winning SCS Alumni Award

First corporate sponsorship:
Yahoo! supports
Education e-Village

Fall 2008



iSTEP internship initiated
with three projects in Tanzania

Spring 2008

Summer 2009

Our Story Begins

TechBridgeWorld was launched when M. Bernardine Dias joined the faculty at Carnegie Mellon after completing her Ph.D. at the Robotics Institute. Inspired by her experiences growing up in Sri Lanka, and with the support of many colleagues and members of our first Advisory Board, she founded the TechBridgeWorld research group in Fall 2004. Her objective was to facilitate interactions between faculty, staff, and students in addressing global poverty through technological innovations. TechBridgeWorld's work began as we listened to challenges and concerns expressed by individuals from developing communities. We learned that the primary interests of those communities were in the areas of education and health. Given our establishment at an academic institution, many of our projects in the years since have focused on technology education and the application of technology for educational purposes. We continue to focus on our guiding principles of respect and empowerment in developing partnerships with organizations around the world.

ICTD Courses Established at Carnegie Mellon

Faculty collaborations began as early as Fall 2003 between Dr. Raj Reddy, Dr. Rahul Tongia and Dr. Dias to create a new course at Carnegie Mellon focused on the growing field of information and communication technologies for development (ICTD). The first version of the course was conducted in collaboration with scholars from the University of California at Berkeley. This course was then further developed through TechBridgeWorld starting in Fall 2004. With support from the university's effort to further globalize its curriculum, what was once only a graduate student course expanded into separate undergraduate and graduate courses on Technology and Global Development and Technology for Developing Communities. Students at our Doha campus currently have access to the undergraduate version of this course. TechBridgeWorld continues to organize and advertise courses relevant to ICTD for our university's students. In Spring 2009 we launched a new mini course that prepares students for conducting technology field research in developing communities through our iSTEP internship program.



V-Unit: Learning to Build a Vision

The V-Unit was one of the best projects of my educational career. Not only was I pleased with what I had accomplished at the end of it, but the experience also equipped me to deal with other technical and operational challenges that have come my way.

Vinithra Varadharajan, TechBridgeWorld Volunteer, Former V-Unit Participant and Robotics Institute Master's Alumna, Carnegie Mellon University



Photos above show past V-Unit project work in India and Peru.

There are several ways that technology can impact society and early on we decided it would be important to encourage student research in non-traditional, typically under-funded areas. Faculty members Dr. Manuela Veloso and Dr. M. Bernardine Dias began a collaboration in Spring 2005 to offer graduate students the opportunity to apply their technical knowledge and skills to real-world concerns in society, development, and the environment. Since then, 31 students have conducted research projects through the V-Unit program, and certain V-Unit student research efforts have grown into longer-term TechBridgeWorld projects such as the Braille Writing Tutor and Project Kané.

Project Kané

Literacy is a major challenge in many communities, impacting educational and employment opportunities and development efforts on a broader scale. We began exploring these challenges in Summer 2005 when Robotics Ph.D. student G. Ayorkor Mills-Tettey initiated a pilot project in partnership with TechBridgeWorld in her home country of Ghana. Her pilot study, and a more extensive study conducted in 2008 by local partners with support from UNESCO, explored the effectiveness of an automated reading tutor in enhancing English literacy among Ghanaian students. The studies used Project LISTEN's Reading Tutor, developed by Dr. Jack Mostow's group at Carnegie Mellon's Robotics Institute. TechBridgeWorld's work on literacy later expanded to explore the feasibility of the project at a school in Zambia and opportunities with cell phone-based educational games through student research in Tanzania. This work

seeks to help enhance literacy skills by developing technology that includes educational games relevant to the local culture. As we continue to expand this work, the goal is to better understand the needs and challenges of using computing technology to improve child literacy and to also increase opportunities for adult learners.



Working with TechBridgeWorld has given me an opportunity to explore my passion for applying technology and education to the needs of development. Through our experience of designing and implementing Project Kané, I have learned a great deal about literacy, about the intricacies of setting up field studies, and about working with partners. This experience has been invaluable.

G. Ayorkor Mills-Tettey, Robotics Institute Ph.D. Student
and TechBridgeWorld Student Representative, Carnegie Mellon University

Photos above show students in Ghana and Tanzania involved with our literacy projects.



Pittsburgh-Doha Collaboration



As a global university, Carnegie Mellon encourages multi-disciplinary and cross-cultural collaborations. TechBridgeWorld has facilitated faculty, staff, and student interactions in particular between the Pittsburgh and Doha campuses to address technology and development issues. With M. Bernardine Dias teaching and conducting research related to robotics at both the Pittsburgh and Doha campuses, we were able to expand TechBridgeWorld courses, research, and internship opportunities from Pittsburgh to Doha as well. We are delighted to have the continued support of Dr. Charles E. Thorpe, Dean of Carnegie Mellon University in Qatar, as a member of our Advisory Board.

Creating new research opportunities with students at the Doha campus is an exciting aspect to our work. In Spring 2007, Computer Science student Noura El-Moughny began an undergraduate research project with Dr. Dias in Doha which continued as her senior thesis project. Noura's thesis on "Assistive Technology for Learning to Write Braille" won the SCS Alumni Award for Undergraduate Excellence when she graduated in Spring 2008 and she was the first student from Carnegie Mellon University in Qatar to win this award. Additional students conducted undergraduate research projects and a field visit to Cambodia through Reach Out to Asia in 2008 with the support of faculty advisors Dr. Yonina Cooper, Dr. Khaled Harras, and Dr. Dias. Other students conducted projects in India and Tanzania, in 2008 and 2009 respectively, with TechBridgeWorld and other partners through summer internship programs. In Spring 2009 we were delighted to bring the ICTD2009 Conference to the new building of Carnegie Mellon University in Qatar which drew wide interest from media, scholars, practitioners, and corporate attendees. Currently, two students from Carnegie Mellon University in Qatar are conducting new senior thesis projects with TechBridgeWorld and our students, faculty, and staff are collaborating in depth on assistive technology projects.



Photos above show SCS Alumni Award winner as well as students and faculty in Cambodia.

Automated Braille Writing Tutor



Innovative technology solutions are already enhancing opportunities for people with disabilities to play a more integral and productive role in society, but much of this technology can be improved in several ways. Through our research we are creating automated tutors and interactive computer games targeted towards enhanced education for visually impaired, Deaf and hard-of-hearing children. One of our main projects in this area is the Automated Braille Writing Tutor, a device originally developed in Spring 2006 by Robotics Ph.D. students Nidhi Kalra and Tom Lauwers in collaboration with the Mathru School for the Blind in India based on the traditional method of writing with a slate and stylus. Many individuals have since made significant contributions to the Braille Writing Tutor, which now includes tutoring capabilities in English, Arabic, Swahili, Chinese, and French braille, as well as several educational games. We have conducted field tests and collected feedback with teachers and students in the United States, India, Qatar, China, Tanzania, and Zambia. Our current work with assistive technology is supported by a three-year grant from the Qatar National Research Fund.

I feel proud and privileged to be associated with TechBridgeWorld through the Braille Writing Tutor project, which is a revolution in braille education. TechBridgeWorld has brought light into the lives of our students who are living in darkness. On behalf of the Mathru School for the Blind, I congratulate you on your commitment and dedication in introducing innovative technologies, wherever possible, to bridge the gap between developed and developing communities. Best wishes to TechBridgeWorld on your fifth year anniversary!

Gubbi R. Muktha, Founder and Managing Trustee
Mathru Education Trust for the Blind



Photos above show a student and teacher in Tanzania and a student in India working with this project.

Education e-Village

As demonstrated by the robotics course taught at Ashesi University College in Ghana, programs offered by TechBridgeWorld make technology relevant to students in emerging economies. This has and will continue to encourage students to tackle challenges in their communities using locally available technologies. This is both innovative and pragmatic, and for me, is a good way forward.



Dr. Nathan Amanquah, Assistant Professor
Ashesi University College, Accra, Ghana

While resources for education at all levels are scarce in many developing regions, effective technology education is made especially difficult in these regions due to insufficient access to necessary resources and expertise. Nevertheless, several organizations and educators are using creative approaches to teach subjects such as computer science with limited resources and expertise. The “E-Village” project was created to increase access to relevant and useful resources to educate a new generation of technologists in developing regions. The project began in Summer 2006 through the development of a pilot course on Robotics and Artificial Intelligence in collaboration with Ashesi



University College in Accra, Ghana. This course, the first of its kind offered in the country, was intended to inspire the technical creativity of university students in Ghana through hands-on activities using robotics kits and locally-available materials. Students cited increased confidence as one of the outcomes of the course, and some students from the course later founded their own start-up technology company. Once it is formally launched, E-Village will offer this and other course materials through an online community where educators from around the globe will be able to share ideas, curriculum, experiences, expertise, and strategies for effective technology education in under-resourced regions. We were delighted to receive partial funding for this project in 2006 from the Berkman Faculty Development Fund and in 2008 from Yahoo!

Photos above show students and faculty during pilot course at Ashesi.



TechBridgeWorld Interactive



TechBridgeWorld Interactive is a unique opportunity for students, faculty, staff, and alumni from Carnegie Mellon, as well as members of the Pittsburgh community, to explore technology innovations that can make an impact in developing communities around the world. We created an annual event in Fall 2007 to provide fun and creative opportunities to interact with some of our technology first-hand and to learn about developing regions. Over the past five years, dozens of students have been involved with our courses, events, and research and are able to feature their work and experiences with TechBridgeWorld through this annual event. This book is being featured at our third annual TechBridgeWorld Interactive event held October 29, 2009 in celebration of our fifth year anniversary.



Photos above show participants and banner advertisement for Interactive 2008.

ICTD2009: International Conference on Information and Communication Technologies for Development

Carnegie Mellon's leadership in the field of ICTD was recognized in our selection to host the third International Conference on Information and Communication Technologies and Development (ICTD2009), held April 17 – 19, 2009 at the Carnegie Mellon University in Qatar campus in Doha. TechBridgeWorld played a leading role in hosting this event, with M. Bernardine Dias as the Conference Chair. The event was a great success with nearly 350 attendees from around the world participating in oral and poster presentations, demos, panels, and workshops, many of whom were able to participate with scholarships offered through conference sponsorships. An additional 175 guests from the Doha area, including Her Highness Sheikha Mozah Bint Nasser Al Missned, attended exciting keynote presentations by speakers William H. Gates from Microsoft and the Bill and Melinda Gates Foundation and Dr. Carlos A. Primo Braga from the World Bank.



Photo by Khalid Ismail



Photo by Khalid Ismail

Photos above show conference leaders with William H. Gates, the poster and demo session, and Dr. Carlos A. Primo Braga's keynote presentation.

iSTEP: innovative Student Technology ExPerience

One of TechBridgeWorld's main goals is to provide Carnegie Mellon students with real-world experience in applying their knowledge and skills for creative problem solving in unfamiliar settings. To further this goal we launched the innovative Student Technology ExPerience program in Summer 2009 as a unique research-oriented, paid internship opportunity for Carnegie Mellon students.

The iSTEP program is designed so that the intern team works closely with local partners in developing communities and contributes technical expertise by inventing new tools and customizing existing technology. In creating this program we built upon our past experience facilitating other overseas student internships with the Technology Consulting in the Global Community program and Microsoft Research India. For our inaugural iSTEP year, a team of six students from Computer Science, Engineering, and Social Science departments worked together in a globally-distributed team. For the three projects, the team worked with primary school students and teachers, visually impaired students and their teachers, and social workers in Tanzania in partnership with the University Computing Centre, University of Dar es Salaam.

We are establishing iSTEP as an annual program. For Summer 2010 we are partnering with the Asian University for Women in Chittagong, Bangladesh on two projects related to educational technology. TechBridgeWorld is incredibly grateful for those who supported iSTEP 2009 and we are delighted that Yahoo! has contributed a named fellowship to support in part iSTEP 2010.

As a sponsor, I enjoyed reading the Carnegie Mellon students' blogs about their experiences in Africa under TechBridgeWorld, both their technical work and their personal growth experiences. As in all international experiences, there is growth on all sides of the partnership. I decided that as long as I was able to I wanted to support this work. Now as an alumni parent I have continued to support student experiences with TechBridgeWorld through my financial contributions.

Dr. Donald S. Shepard, Professor, Heller School, Brandeis University

Congratulations on a successful first five years TechBridgeWorld! We are thrilled to be able to support the incredibly important ICTD work your organization and Carnegie Mellon students are doing around the globe. We are excited about the upcoming iSTEP Yahoo! Fellowship Award and look forward to helping this new crop of socially-motivated global technology heroes make use of their knowledge, skills and creativity to really make an impact on the world today!

Jamie Lockwood, Yahoo! Labs Academic Relations Manager

Using your thumb to text messages you can reach millions thus helping TechBridgeWorld make a difference using cell technology in remote areas of Africa; no area of the world should be hard to reach!

Dr. Theresa Kaijage, Professor, Institute of Social Work, Tanzania, referring to our social worker project

The iSTEP internship has shown me the importance of people and communities. Regardless of how wonderful and powerful a technological solution is, community involvement is the most important.

Hatem Alismail, iSTEP 2009 Participant, Computer Science Major Class of 2009 and current Robotics Institute Graduate Student, Carnegie Mellon University





Photos above show iSTEP 2009 students and partners at work in Tanzania.

I really admire what TechBridgeWorld has achieved. Computer Science and Robotics are changing the world at an accelerating pace. I feel that now is such an exciting time to be a technologist: the world is filled with possibilities. TechBridgeWorld is spreading this excitement and spurring technological solutions appropriate to developing communities. I can't really think of a more important thing to be doing.

Dr. Andrew W. Moore

Director, Pittsburgh Engineering Office, Google Inc



YAHOO!

YOU

**BRIDGE DIVIDES,
CONNECT COMMUNITIES
AND REALLY GET US YODELING.**

**THE RIGHT TECHNOLOGY
CAN BRING PEOPLE TOGETHER AND
ENCOURAGE EXTRAORDINARY CHANGE.
(WE'VE SEEN IT FIRSTHAND THROUGH OUR EFFORTS ON YAHOO! FOR GOOD).**

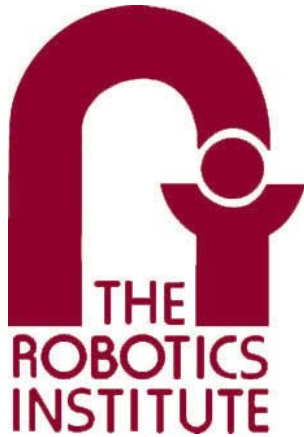
FOR YOUR WORK AND GREAT IDEAS

WE APPLAUD YOU

It's ou

Happy fifth birthday TechBridgeWorld. Keep up the amazing work!

Dr. Matthew T. Mason, Director
The Robotics Institute, Carnegie Mellon University



In just a few short years, TechBridgeWorld has become a high-impact organization for infusing sustainable technology into developing communities.

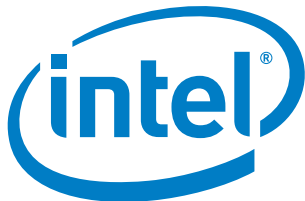
Congratulations to Bernardine Dias, her staff, and all of the student participants on realizing their dreams through dedication and hard work.

Dr. Tony Stentz, Research Professor
The Robotics Institute, Carnegie Mellon University



Intel® Labs Pittsburgh is graced with world class researchers, and we have a long tradition of open collaboration with top university researchers. And with the support of one of the world's most successful computer companies, we are breaking new ground across multiple fields.

The Pittsburgh lab is part of the Intel Labs network of research groups. Our mission is to do exploratory research that makes an impact on both Intel and the external research community. The lab was founded in 2001, employs 21 full-time Intel employees, and works closely with students and faculty from Carnegie Mellon, University of Pittsburgh, UPMC, Georgia Tech, and a number of other institutions. Our research spans robotics and computer systems, covering topics such as personal and modular robotics, brain activity decoding, cloud computing, multi-core architectures, computer-assisted medicine, sensing and perception, wireless and optical networking, and parallel and distributed computing. It's a wonderful and exciting place, and we are delighted to be able to share it with you and to support TechBridgeWorld Interactive 2009.



Intel Labs Pittsburgh
<http://pittsburgh.intel-research.net>

TECHBRIDGEWORLD
AMAZING 5 YEARS!



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Student Experiences
iSTEP Internship
Community Impact
Building Technology Bridges
People in Partnership
Real-World Applications
Enhancing Education
Technology Making a Difference

Every bit of
TechBridgeWorld
is Xtraordinary!

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Vivísimo®



Working with TechBridgeWorld has been an awesome experience from the start. Sharing and utilizing talent, time, and skills in order to help populations not only in Pittsburgh and the United States, but all over the world, seems like it would be such a daunting task, but TechBridgeWorld does just that - proving that technology sharing can improve so many lives while encompassing diversity and culture as well. It is very exciting and a privilege to be involved with such a committed organization. What an excellent model!

Joyce Maravich, Teacher, Western Pennsylvania School for the Deaf

Thanks to TechBridgeWorld during these past five years, students and communities from around the world have benefited and learned from each other. This team has empowered numerous partner communities through relevant and sustainable technology to fulfill their vision. TechBridgeWorld, you are a source of pride and inspiration to all of us, keep it up and congratulations on this very special occasion. Happy fifth birthday!

Dr. Ariadna Font Llitjós, Senior Computational Linguist at Vivisimo, Former V-Unit Participant, Language Technologies Institute Ph.D. Alumna, and TechBridgeWorld Advisory Board member, Carnegie Mellon University

TechBridgeWorld offers students the unique opportunity to apply technical skills learned in classes to real world problems occurring in the developing communities. Most research opportunities and internships focus either on a specific skill set, however, all the work I have done with TechBridgeWorld has been multidisciplinary encompassing technical, social, communication, and cultural skills. The best part about working with TechBridgeWorld is the easiness to see the practicality and significance of the work I do and who it will be impacting.

Saurabh Sanghvi, Electrical and Computer Engineering Major Class of 2010, Carnegie Mellon University who has conducted research with our Braille Writing Tutor and Education e-Village projects

TechBridgeWorld works to remedy inequities in our world by making technology more accessible to those who are left out of today's technologically advanced global society. I am proud to be a part of this group that inspires people to envision a better world for all, and I hope to celebrate many more years of its outstanding work. Congratulations TechBridgeWorld!

Beatrice Dias, iSTEP 2009 Participant, Engineering and Public Policy Ph.D. Student and TechBridgeWorld Student Representative, Carnegie Mellon University

TechBridgeWorld is where hard heads meet soft hearts. We apply the most rigorous analysis, the most advanced technology, the greatest intellectual leverage; all in the service of the most needy people in the most desperate situations. And, in the end, the technology developers receive back as much as they give, in what they learn about technology, what they learn about other people, and what they learn about themselves.

Dr. Charles E. Thorpe, Dean, Carnegie Mellon University in Qatar
and TechBridgeWorld Advisory Board member

One of the most compelling features of TechBridgeWorld is that students, many of whom are from developing countries themselves, bring back ideas and lessons from their research in country. This return flow of information is of great benefit to research scientists and academics at Carnegie Mellon University who are striving to develop appropriate solutions that fit culturally and economically with the populations for which they are intended.

Dan Jenkins, Corporate Relations, School of Computer Science, Carnegie Mellon University
and TechBridgeWorld Advisory Board member

Imagine 'Bridging the world with technology'. TechBridgeWorld has heroically established that goal! Don't you love their audacity? Don't you want to be part of it? Imagine the peace. Imagine the understanding. Imagine a better world. TechBridgeWorld does. I do. So should you!

Ed Barr, Associate Teaching Professor, Heinz College, Carnegie Mellon University
and TechBridgeWorld Advisory Board member



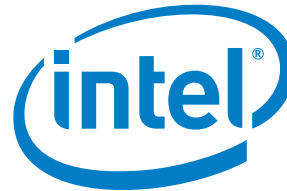
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by our partners and by students and colleagues
from Carnegie Mellon University and Carnegie Mellon University in Qatar.

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