Anusha Withana

School of Computer Science
Faculty of Engineering,
University of Sydney.
J12/1 Cleveland St, Darlington NSW 2008, Australia.

Voice: +61 286 277 056 wdanusha@acm.org http://withana.info DoB: 1983-02-20, in Sri Lanka

I am a lecturer in School of Information Technologies, Faculty of Engineering, University of Sydney, Australia. My research is focused on fabricating *blended interfaces* that are interactionally, ergonomically and technologically fit to sustain in real world applications. Such interfaces are vital to expand the traditional human computer interaction (HCI) from desktops to a broader social interaction paradigm and will play an important role in future smart societies accommodating education, play and wellbeing.

EDUCATION

Ph.D. in Media Design (HCI) - Keio University, Tokyo, Japan

2010 to 2014

Thesis: Integration of Multimodal Interactions for Inter-Spatial Continuum Advisors: Prof. Masahiko Inami, Prof. Naohisa Ohta, Prof. Akira Kato

M.Sc. in Media Design (HCI) - Keio University, Tokyo, Japan

2008 to 2010

Thesis: ImpAct: Immersive Haptic Interface - Exploring Direct Touch and Manipulation

Techniques for Surface Computing

Advisors: Prof. Masahiko Inami, Asst. Prof. Maki Sugimoto

B.Sc. (Hons.) in Electronics and Telecommunication - University of Moratuwa, Sri Lanka

2003 to 2007

Grade Point Average (GPA) = 3.91 (First Class)

GCE A/L Examination, Sri Lanka District Rank: 1^{st} (Out of appr. 20,000), National Rank: 41^{st} (Out of appr. 180,000).

Maths: A, Physics: A, Chemistry: A, Z-score: 2.4838

2000 to 2002

PROFESSIONAL EXPERIENCES

School of IT, Faculty of Engineering, University of Sydney, Australia

Lecturer July 2017 - Now

Max Planck Institute for Informatics and Saarland University, Germany

Postdoctoral Fellow Dec 2016 - Apr 2017

Singapore University of Technology and Design, Singapore

Postdoctoral Fellow Jan 2014 - Oct 2016

University of Melbourne, Melbourne, Australia

Visiting Researcher Jun - Aug 2015

Keio University, Tokyo, Japan.

Researcher Oct - Dec 2013

SCOPE (Strategic Information and Communications R&D Promotion Program)

Research Assistant Oct 2012 - Mar 2013

SCOPE (Strategic Information and Communications R&D Promotion Program)

JST ERATO Igarashi Design Interface Project, Tokyo, Japan.

Research Assistant Jul 2009 - Mar 2011

Dialog Telekom Ltd., Colombo, Sri Lanka.

Core Network Engineer Nov 2007 - Sep 2008

REFEREED PUBLICATIONS

Google scholar citation summary:

JOURNAL PUBLICATIONS

Juan Pablo, Piyum Fernando, Priyashri Sridhar, <u>Anusha Withana</u>, Suranga Nanayakkara, Jurgen Steimle, and Pattie Maes. **PostBits: using contextual locations for embedding cloud information in the home**. *Personal and Ubiquitous Computing*, 20(6):1001–1014, nov 2016

h-index: 11:

i10-index: 11.

Retrieved: 25-10-2018

- Yuta Sugiura, Kakei Gota, Anusha Withana, Daisuke Sakamoto, Masahiko Inami, and Takeo Igarashi. Direct Operation Method with Self-projectable Finger Gestures for Bipedal Robots. Journal of Information Processing (JIP), 52(2):737–742, 2011
- Miyuru Dayarathna, Anusha Withana, and Kazunori Sugiura. Infoshare: Design and Implementation of Scalable Multimedia Signage Architecture for Wireless Ubiquitous Environments. Wireless Personal Communications, 60(1):3–27, mar 2011
- J4 Anusha Withana, Yasutoshi Makino, Makoto Kondo, Maki Sugimoto, Gota Kakehi, and Masahiko Inami. ImpAct
 : Immersive Haptic Stylus to Enable Direct Touch and Manipulation for Surface Computing. Computers in Entertainment, 8(2):1, dec 2010

SELECTED CONFERENCE PAPERS

- Narjes Pourjafarian, Anusha Withana, , Joe Paradiso, and Jürgen Steimle. Multi-Touch Kit: A Do-It-Yourself Technique for Capacitive Multi-Touch Sensing using a Commodity Microcontroller. In *The 32nd Annual ACM Symposium on User Interface Software and Technology UIST '19 (to appear)*, New York, New York, USA, 2019. ACM Press
- C2 Daniel Groeger, Martin Feick, Anusha Withana, and Jürgen Steimle. Tactlets: Adding Tactile Feedback to 3D Objects Using Custom Printed Controls. In The 32nd Annual ACM Symposium on User Interface Software and Technology UIST '19 (to appear), New York, New York, USA, 2019. ACM Press
- C3 Anusha Withana, Daniel Groeger, and Jürgen Steimle. Tacttoo: A Thin and Feel-Through Tattoo for On-Skin Tactile Output. In The 31st Annual ACM Symposium on User Interface Software and Technology UIST '18, pages 365–378, New York, New York, USA, 2018. ACM Press
- C4 Aditya Shekhar Nittala, <u>Anusha Withana</u>, Narjes Pourjafarian, and Jürgen Steimle. **Multi-Touch Skin: A Thin and Flexible Multi-Touch Sensor for On-Skin Input**. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems CHI '18*, pages 1–12, New York, New York, USA, 2018. ACM Press
- Bernd Ploderer, Justin Fong, <u>Anusha Withana</u>, Marlena Klaic, Siddharth Nair, Vincent Crocher, Frank Vetere, and Suranga Nanayakkara. **ArmSleeve: a Patient Monitoring System to Support Occupational Therapists in Stroke Rehabilitation**. In *Proceedings of the 2016 ACM Conference on Designing Interactive Systems DIS '16*, pages 700–711, New York, New York, USA, 2016. ACM Press
- C6 Anusha Withana, Roshan Peiris, Nipuna Samarasekara, and Suranga Nanayakkara. zSense: Enabling Shallow Depth Gesture Recognition for Greater Input Expressivity on Smart Wearables. In Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems CHI '15, pages 3661–3670, 2015
- C7 Anusha Withana, Shunsuke Koyama, Daniel Saakes, Kouta Minamizawa, Masahiko Inami, and Suranga Nanayakkara. RippleTouch: initial exploration of a wave resonant based full body haptic interface. In *Proceedings of the 6th Augmented Human International Conference on AH '15*, pages 61–68, 2015
- C8 Santiago Ortega-Avila, Jochen Huber, Nuwan Janaka, <u>Anusha Withana</u>, Piyum Fernando, and Suranga Nanayakkara. SparKubes: exploring the interplay between digital and physical spaces with minimalistic interfaces. In *Proceedings of the 26th Australian Computer-Human Interaction Conference on Designing Futures the Future of Design OzCHI '14*, pages 204–207, 2014
- C9 Shunsuke Koyama, Masahiko Inami, Yuta Sugiura, Masa Ogata, <u>Anusha Withana</u>, Yuji Uema, Makoto Honda, Sayaka Yoshizu, Chihiro Sannomiya, and Kazunari Nawa. <u>Multi-touch steering wheel for in-car tertiary applications using infrared sensors</u>. In *Proceedings of the 5th Augmented Human International Conference on AH '14*, pages 1–4, New York, New York, USA, 2014. ACM Press

- C10 Anusha Withana, Shunsuke Koyama, Yuta Sugiura, Yuji Uema, Kazunari Nawa, Sayaka Yoshizu, Chihiro Sannomiya, and Masahiko Inami. Effects of Relative Rotation on Gesture Interaction in a Multitouch Steering Wheel Based Gaming Interface. In 18 Virtual Reality Conference, Osaka, Japan, 2013. Virtual Reality Society of Japan
- C11 Yuta Sugiura, Calista Lee, Masayasu Ogata, Anusha Withana, Yasutoshi Makino, Daisuke Sakamoto, Masahiko Inami, and Takeo Igarashi. PINOKY: A Ring That Animates Your Plush Toys. In Proceedings of the 2012 ACM annual conference on Human Factors in Computing Systems CHI '12, pages 725–734, New York, New York, USA, may 2012. ACM Press
- C12 Anusha Withana, Yuta Sugiura, and Masahiko Inami. Haptic Telescope: Visual to Haptic Cross Modal Display. In 17 Virtual Reality Conference. Virtual Reality Society of Japan, 2012
- C13 Anusha Withana, Miyuru Dayarathna, Masa Inakage, and Kazunori Sugiura. Infoshare: Content, design and system independent multimedia signage architecture. In 2011 2nd International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology (Wireless VITAE), pages 1–6. IEEE, feb 2011
- C14 Yuta Sugiura, Gota Kakehi, <u>Anusha Withana</u>, Calista Lee, Daisuke Sakamoto, Maki Sugimoto, Masahiko Inami, and Takeo Igarashi. **Detecting shape deformation of soft objects using directional photoreflectivity measurement**. In *Proceedings of the 24th annual ACM symposium on User interface software and technology UIST '11*, pages 509–516, New York, New York, USA, oct 2011. ACM Press
- C15 Yuta Sugiura, Diasuke Sakamoto, <u>Anusha Withana</u>, Masahiko Inami, and Takeo Igarashi. Cooking with robots: designing a household system working in open environments. In *Proceedings of the 28th international conference on Human factors in computing systems CHI '10*, page 2427, 2010
- C16 Kazunori Sugiura, Miyuru Dayarathna, and <u>Anusha Withana</u>. **Design and implementation of distributed and scalable multimedia signage system**. In 2010 Second International Conference on Ubiquitous and Future Networks (ICUFN), pages 273–278. IEEE, jun 2010

DEMONSTRATIONS, INSTALLATIONS AND WORKSHOPS

- <u>Anusha Withana</u> and Jürgen Steimle. **Personalized Interactive Surfaces with Printed Electronics**. In *Adj. Proceedings of the Interactive Surfaces and Spaces ISS '17*, pages 473–476, New York, New York, USA, 2017. ACM Press
- <u>Anusha Withana</u>, Shanaka Ransiri, Tharindu Kaluarachchi, Chanaka Singhabahu, Yilei Shi, Samitha Elvitigala, and Suranga Nanayakkara. waveSense: Ultra Low Power Gesture Sensing Based on Selective Volumetric Illumination. In *Adj. Proceedings of the 29th Annual Symposium on User Interface Software and Technology*, pages 139–140, New York, NY, USA, 2016. ACM Press
- D3 Thomas Schroepfer, Suranga Nanayakkara, Anusha Withana, Aloysius Lian, and Lonce Wyse. The RIBbon @ Read Bridge: Interactive light installation, 2015
- D4 Thomas Schroepfer, Suranga Nanayakkara, <u>Anusha Withana</u>, Aloysius Lian, Roger Boldu, John Naylor, and Sachith Muthukumarana. SonicSG: Interactive light and sound installation for celebration of SG50, 2015
- D5 Thomas Schroepfer, Suranga Nanayakkara, Anusha Withana, Thomas Wortmann, Alex Cornelius, Yu Nong Khew, and Aloysius. Lian. Keepers & Bees: an interactive light-art installation of interactive critters that visitors can interact with in real time via their smartphones., 2014
- Thomas Schroepfer, Suranga Nanayakkara, <u>Anusha Withana</u>, Juan âĂŃPablo, Thomas Wortmann, Alex Cornelius, Yu Nong Khew, and Aloysius Lian. nZwarm: a swarm of luminous sea creatures that interact with passers-by, 2014
- Thomas Schroepfer, Suranga Nanayakkara, Thomas Wortmann, Alex Cornelius, Yu Nong Khew, Aloysius Lian, Yeo Kian Peen, Roshan Peiris, <u>Anusha Withana</u>, Werry. Iain, Benjamin Petry, Santiago Otega, Nuwan Janaka, Samitha Elvitigala, Piyum Fernando, and Nipuna Samarasekara. iSwarm: a swarm of luminous sea creatures that interact with passers-by, 2014
- Yuta Sugiura, Calista Lee, Masayasu Ogata, Anusha Withana, Yasutoshi Makino, Daisuke Sakamoto, Masahiko Inami, and Takeo Igarashi. PINOKY: A Ring-like Device That Gives Movement to Any Plush Toy. In CHI '12 Extended Abstracts on Human Factors in Computing Systems, CHI EA '12, pages 1443–1444, New York, NY, USA, 2012. ACM

- Gota Kakehi, Yuta Sugiura, Anusha Withana, Calista Lee, Naohisa Nagaya, Daisuke Sakamoto, Maki Sugimoto, Masahiko Inami, and Takeo Igarashi. FuwaFuwa: Detecting Shape Deformation of Soft Objects Using Directional Photoreflectivity Measurement. In ACM SIGGRAPH 2011 Emerging Technologies on SIGGRAPH '11, pages 1–1, New York, New York, USA, aug 2011. ACM Press
- <u>Anusha Withana</u>, Yuta Sugiura, Charith Fernando, Yuji Uema, Yasutoshi Makino, Maki Sugimoto, and Masahiko Inami.
 <u>ImpAct: Haptic Stylus for Shallow Depth Surface Interaction</u>. In *SIGGRAPH Asia 2011 Emerging Technologies on SA '11*, pages 1–1, New York, New York, USA, dec 2011. ACM Press
- P11 Yuta Sugiura, Anusha Withana, Teruki Shinohara, Masayasu Ogata, Daisuke Sakamoto, Masahiko Inami, and Takeo Igarashi. Cooky: A Cooperative Cooking Robot System. In SIGGRAPH Asia 2011 Emerging Technologies on SA '11, pages 1–1, New York, New York, USA, dec 2011. ACM Press
- D12 Anusha Withana, Makoto Kondo, Gota Kakehi, Yasutoshi Makino, Maki Sugimoto, and Masahiko Inami. ImpAct: Enabling Direct Touch and Manipulation for Surface Computing. In Adjunct proceedings of the 23nd annual ACM symposium on User interface software and technology UIST '10, page 411, New York, New York, USA, oct 2010. ACM Press
- D13 Yu Ebihara, Masa Inakage, Chihiro Kondo, Maki Sugimoto, Satoru Tokuhisa, Takuji Tokiwa, Kentaro Harada, Hiroaki Miyasho, Toshitugu Yasaka, and <u>Anusha Withana</u>. Composing sounds and images for public display using correlated KANSEI information. In ACM SIGGRAPH ASIA 2010 Posters on SA '10, page 1, New York, New York, USA, dec 2010. ACM Press
- <u>Anusha Withana</u>, Rika Matsui, Maki Sugimoto, Kentaro Harada, and Masa Inakage. <u>Narrative image composition using objective and subjective tagging</u>. In *ACM SIGGRAPH 2010 Posters on SIGGRAPH '10*, page 1, New York, New York, USA, jul 2010. ACM Press
- D15 Adrian David Cheok, Roshan Lalintha Peiris, Nimesha Ranasinghe, James Keng Soon Teh, Wei Wang Thang, Kening Zhu, Makoto Danjo, Miyuru Dayarathna, Charith Lasantha Fernando, Nancy Lan-Lan Ma, Yukihiro Morisawa, Dilrukshi Abeyrathne, Anusha Indrajith Withana, Chamari Priyange Edirisinghe, Owen Noel Newton Fernando, Isuru Sawubhagya Godage, Kris Hoogendoorn, Junsong Hou, Kasun Karunanayaka, and Michelle Narangoda. Petimo: children's companion for safe social networking. In ACM SIGGRAPH ASIA 2009 Art Gallery & Emerging Technologies: Adaptation on SIGGRAPH ASIA '09, page 80, 2009
- D16 Adrian David Cheok, Owen Noel Newton Fernando, and Charith Lasantha Fernando. Petimo: Enhanced tangible social networking companion for children. In *Proceedings of the International Conference on Advances in Computer Enterntainment Technology ACE '09*, pages 411–412, 2009
- D17 Adrian David Cheok, Owen Noel Newton Fernando, and Charith Lasantha Fernando. Petimo: Safe Social Networking Robot for Children. In Proceedings of the 8th International Conference on Interaction Design and Children IDC '09, page 274, New York, New York, USA, jun 2009. ACM Press
- D18 Charith Lasantha Fernando, Takeo Igarashi, Masahiko Inami, Maki Sugimoto, Yuta Sugiura, Anusha Indrajith Withana, and Kakehi Gota. An operating method for a bipedal walking robot for entertainment. In ACM SIGGRAPH ASIA 2009 Art Gallery & Emerging Technologies: Adaptation on SIGGRAPH ASIA '09, page 79, New York, New York, USA, dec 2009. ACM Press

PATENTS

- P1 Anusha Indrajith Withanage Don, Suranga Chandima Nanayakkara, and Shanaka Ransiri Pulukkutti Arachchige Don.
 Method and device for determining position of a target, 2018
- P2 Anusha Indrajith Withanage Don and Suranga Chandima Nanayakkara. **Gesture recognition devices, gesture recognition methods, and computer readable media**, 2017
- P3 Suranga Chandima Nanayakkara, Nuwan Janaka Nanayakkarawasam Peru Kandage, Roshan Lalintha Peiris, and Anusha Indrajith Withanage Don. **Rehabilitation exercise system**, 2017
- P4 Sayaka Yoshizu, Hihiro Sannomiya, Shunsuke Koyama, Yuta Sugiura, Anusha Indrajith Withanage, Don, Masayasu Ogata, and Masahiko Inami. Input device and input acquisition method, 2015

HONOURS AND AWARDS

HONOURS AND AWARDS	
Rutherford Fellowship for Visiting Researcher The University of Sussex, UK.	2019
Most Promising Technology Award: zSense: Gestures on Smart Wearables Innovfest unBound 2016 event. Organized by NUS, unBound IDA Singapore.	2016
Best Pitch Award: zSense: Gestures on Smart Wearables Singapore-MIT Alliance for Research and Technology (SMART) Bootcamp, 2015.	2015
Monbukagakusho MEXT Japanese Government Monbukagakusho MEXT scholarship for higher education	2009 to 2013
Best Paper Silver Award ACM ACE2010 ImpAct: Immersive haptic stylus to enable direct touch and manipulation for surface computing at 7th International Conference in ACE2010 at Taipei.	2010
InventiON: First prize in the ICT track for Petimo Petimo: social networking robot for children, won the first prize in an international innovation competition in Milan, Italy sponsored by the MMCC. April 22, 2010	2010
Petimo: Winner of the C4C (Como for Children) Competition at IDC The 8th International Conference on Interaction Design and Children (IDC): Learning and Playing in the pre-school of the future, Como, Italy, June 2009	2009
Dean's List (University of Moratuwa) Dean's List of Faculty of Engineering University of Moratuwa, Level 1 and 2.	2003 to 2004
DialogGSM Change Scholarship Awarded for outstanding performance in GCE A/L examination in physical science stream.	2003 to 2007
District Rank 1 GCE A/L examination (<i>Kalutara District</i>) Score the highest mark in GCE A/L examination in Kalutara District, Sri Lanka.	2002
RESEARCH GRANTS	
AWARDED	
CI of User Centered Fabrication of Interactive Things, Source: FEIT ECR MES Centrally formed and wrote the research program. 104K AUD	2019
Co-PI of zSense: Gestures on Smart Wearables, Source: SMART Innovation Grant Centrally formed and wrote the research program. (PI: Nanayakkara). 216K SGD	2016 to 2017
Co-PI of zSense: Gestures on Smart Wearables, Source: SMART Innovation Grant Centrally formed and wrote the research program. (PI: Nanayakkara). 60K SGD	2015 to 2016
Gestures on Steering Wheel, Role: Lead research, Source:Toyota IT Collaboratively formed and wrote the research program (PI: Inami). 4 million JPY.	2012 to 2013
Impact V2 - For Design and Creation, <i>Role: Lead research, Source:Keio University</i> Centrally formed and wrote the research program. (PI: Inami). 400K JPY	2012 to 2013

Ambient Haptic Display for Car Steering Wheel, Role: Lead research, Source:Toyota IT

Collaboratively formed and wrote the research program (PI: Inami). 4 million JPY.

2011 to 2012

TEACHING EXPERIENCES

2017
2016
2013
2012
2011
2010
Feb, 2019
Dec, 2018
Nov, 2018
June, 2017
June, 2015
2014
2011
2011
2018
2018
2018

Workshop - Personalized Interactive Surfaces with Printed Electronics, ACM ISS2017 ACM International Conference on Interactive Surfaces and Spaces, Brighton UK	2017
Program Committee, ACM - Augmented Haman 2016	2016
Co-Chair - Demonstration and Poster, AH15 ACM - Augmented Haman 2015 International Conference. [dl.acm.org/citation.cfm?id=2735711]	2015
Program Committee Member, ACM - Augmented Haman 2015	2015
Secretary, Sri Lanka Students' Association in Japan, SLSAJ Published SLSAJ journal, Anual multidisciplinary scientific research journal. [slsaj.com]	2008-2009
Reviewer, Different scientific Conferences ACM CHI, ACM UIST, ACM AH, IEEE VR, ACM ACE	2009-now
Editor of the E-Club, University of Moratuwa, Sri Lanka <i>E-Club</i> , Department of Electronics and Telecommunication Engineering, University of Moratuwa; for academic year 2004/2005. Published the E-Clubs yearly magazine <i>E-Carrier</i> . [ent.mrt.ac.lk]	2004-2005
STUDENT SUPERVISION	
PHD STUDENTS	
Nisal Menuka, PhD Thesis Fabricating Wearable Interfaces. The University of Sydney, Australia.	2019- now
MASTERS STUDENTS	
Alister Palmer, Masters research project Machine Generated Humurous Captions for Cartoons. The University of Sydney, Australia.	2019- now
Fereshteh Shahrabi, Masters thesis Wearable hand gestures with differential sensing. Saarland University, Germany.	2016 - 2018
Manoz Banda, Masters thesis Printed electronics for multi-modal interfaces. Saarland University, Germany.	2016 - 2018
Shunshuke Koyama , Masters thesis Multi-touch steering wheel for in-car tertiary applications using infrared sensors. Keio University Japan.	2011 - 2012
UNDERGRADUATE STUDENTS	
Zixuan Wang , Honors research thesis Mechanomyographic Sensing of Hand Activities. The University of Sydney, Australia.	2019- now
Ziyu Amy Liu , Honors research thesis Predicting Bodily Movement with Wearable Sensors. The University of Sydney, Australia.	2019- now
Zhuolin Xu, Honors research thesis Passive Wearables for Gesture Sensing. The University of Sydney, Australia.	2019- now

Samuel Cheong Li Yang , Undergraduate Research Opportunities Program (UROP) Asthma, Air and Me: Ubiquitous device to measure air quality. Singapore University of Technology and Design.	2014 - 2015
Chanaka Singhabahu , Undergraduate Internship Program zSense: Enabling Shallow Depth Gesture Recognition on Smart Wearables. Singapore University of Technology and Design.	2015 - 2016
Tharindu Kaluarachchi , Undergraduate Internship Program SHRUG: Stroke Haptic Rehabilitation Utilising Gaming. Singapore University of Technology and Design.	2015 - 2016
Jessica A. Fang , MIT MISTI Internship Program SonicSG: Interactive light and sound installation for celebration of SG50. Singapore University of Technology and Design.	2015
Akshika Wijesundara , Undergraduate Internship Program zSense: Enabling Shallow Depth Gesture Recognition on Smart Wearables. Singapore University of Technology and Design.	2014 - 2015
Nipuna Samarasekara , Undergraduate Internship Program zSense: Enabling Shallow Depth Gesture Recognition on Smart Wearables. Singapore University of Technology and Design.	2014
LANGUAGE SKILLS AND COMPETENCES	
English	Fluent
IELTS, December 2014. Results: Listening: 8.0, Reading: 7.0, Writing: 8.0, Speaking: 7.0, Overall: 7.5	
Sinhalese	Native
Japanese	Intermediate
SELECTED PRESS	
Singapore designers create lights for the deaf and rings for the blind, 2015 Showcased the project <i>zSense</i> in November 19, 2015. [https://t.co/lJespV3wwD]	CNN
National Television Sri Lanka (Rupvahini): Featured in program Nugasewana, 2015 Showcased zSense and ImpAct, December 31, 2015. [https://youtu.be/kDMqWdr9AbA]	Rupavahini, SL
Sonic sculpture livens up river, 2015 Showcased the project <i>SonicSG</i> in December 28, 2015. [https://goo.gl/51HQaW]	NUS' News Portal
An interactive tribute to Singapore (printed and web), 2015 Showcased the project <i>SonicSG</i> in December 23, 2015. [http://goo.gl/tqL7mt]	Straits Times
The More Well Wishes for the Nation, the Brighter the Interactive Light Up, 2015 Showcased the project <i>SonicSG</i> in December 23, 2015. [http://tinyurl.com/ho8sd9z]	Lianhe Zaobao
Blinking curtain of lights to bring SG50 to a close, 2015 Showcased the project <i>SonicSG</i> in December 23, 2015. [http://tinyurl.com/jq3d7wh]	Berita Harian
Keio university develops a device to probe content inside iPhone through a stylus , 2010 Showcased the project <i>ImpAct</i> in November 18, 2010. (in Japanese). [http://goo.gl/yJgtt2]	Gizmodo
Mixed Reality Lab on Discovery Science Channel "Future of Communication", 2009 Showcased the project <i>Petimo</i> . [http://goo.gl/mizn6j]	Discovery

Social Networking Robot for Children: Article in newspaper Straits Times, 2009 Showcased the project *Petimo* in June 16, 2009. **Straits Times**

Social Networking Robot for Children: appeared in NUS' News Portal, 2009

NUS' News Portal

Showcased the project *Petimo* in June 03, 2009. [http://goo.gl/8UbC8Z]

Social Networking Robot for Children: Article in newspaper Lianhe Zaobao, 2009 Showcased the project *Petimo* in May 31, 2009.

Lianhe Zaobao

Walky robot understands iPhone gestures, football fanaticism, 2009

Showcased the project Walky in November 17, 2009.

Engadget

FABRICATION, PROTOTYPING AND SOFTWARE TOOLS

Programing and Application Implementation

Network Application programing with "HTML5", "NodeJS", "NW.js" and "JavaScript"	Expert
Object Oriented Programming with "JAVA"	Expert
Android mobile Application Programming with "JAVA"	Expert
Procedural Programming with "C"	Expert
Web CMS with "Drupal 7"	Expert
Web service programing with "PHP"	Expert
Object Oriented Programming with "C++"	Expert
MVC programing with "Ruby on Rails"	Intermediate

Fabrication

Pritned Electronics with functional inks	Expert
3D Modeling with "Solidworks"	Expert
Rapid Prototyping / Additive Manufacturing "Laser Cutter", "3D Printer"	Expert
Electronics circuit design and PCB layout with "Altium DXP"	Expert
Firmware and embedded programing in "GNU-ARM", "Arduino", "AVR", "CCS C PIC"	Expert

Research Tools

Statistics and data manipulation with "R"	Expert
Machine learning and data manipulation "Weka"	Expert

REFERENCES

Prof. Juergen Steimle (Previous Supervisor)

Professor.

MMCI Cluster of Excellence.

Saarland University and Max Planck Institute for Informatics, Germany.

Tel: +49 (0)681 302 71080

Email: steimle@cs.uni-saarland.de

Prof. Sriram Subramanian (Collaborator) Professor of Informatics (Informatics). Graduate School of Media Design. University of Sussex, UK.

Tel: +44 1273 876829

Email: Sriram@sussex.ac.uk

Prof. Masahiko INAMI (Previous Supervisor)

Professor.

The Research Center for Advanced Science and Technology.

University of Tokyo, Japan. Tel: +81-03-5452-5368

Email: drinami@star.rcast.u-tokyo.ac.jp

Last Updated June, 2019.