

JOSÉ ABEL TICONA LARICO

PERSONAL DETAILS

PLACE AND DATE OF BIRTH: Arequipa, Perú - January 7, 1991
ADDRESS: Street Saldanha da Gama 703 - 302, São José Porto Alegre - Brazil
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EDUCATION

- 2017 - (PRESENT) Master in Computer Science, at the *Federal University of the Rio Grande Do Sul*, Porto Alegre - Brazil. Thesis: Sketching 3D Dynamic Objects in Immersive Virtual Reality. Advisor: Luciana Nedel
- 2009 - 2015 Bachelor of Software Engineering, at the *National University of San Agustín*, Arequipa - Perú. Thesis: Segmentation of blood vessels using mathematical morphology. Advisor: Eveling Castro

PROFESSIONAL EXPERIENCE

- MAR 2018 | Participating in the project to develop a sensor and control system for a robot, operated semi-autonomously for monitoring and maintenance of ducts from 4" to 10". Financed by Petrobras - Brazil.
- APR 2016-FEB 2017 | I worked as architect and developer at Global System & Consulting SAC. in the creation of the SIGESMED (Management and Educational Monitoring System) for the Regional Government of Moquegua - Peru.
- JAN-MAR 2016 | I worked as developer in building the multilevel marketing web system SMTAURED for the company TAURED E.I.R.L. Arequipa - Perú.
- JUL-NOV 2015 | I worked as a developer full stack in the construction of the administration and sales system, RIEGOS y CONEXIONES E.I.R.L. Arequipa - Perú.
- OCT 2014-JUL 2015 | I worked as a developer full stack in the construction of the system for sales, MATERIALES y CONEXIONES E.I.R.L. Arequipa - Perú.
- FEB 2014 | I worked as a systems analyst for the implementation of a Control System Toll at the entrance to the Colca Canyon. For Autocolca institution. Arequipa - Perú.

SCHOLARSHIPS AND CERTIFICATES

- JUL 2018 Winter School of the 2018 Programming Marathon, held at the Institute of Informatics of UFRGS.
- OCT 2015 Participant in the XLI Latin American Conference in Computer Science held in Arequipa.
- MAY 2013 Android Mobile Application Development, issued by Phd. ORLAND Computer Science KARAM Southern Polytechnic University, Atlanta, USA taught at the University National of San Agustin.
- NOV 2012 Participate in International Collegiate Programming Contest ACM 2012 organized by ACM - IBM held on 9 and 10 November 2012.

RESEARCH INTERESTS

- I am interested research in physically-based simulation, computer graphics, and rendering in real-time.
- Knowledge in Digital Signal Processing, Human-computer interaction, VR and AR.

PUBLICATIONS

- NOV 2018 Heat-Based Bidirectional Phase Shifting Simulation using Position-Based Dynamics. *Computers & Graphics 76, 107-11 (presented in SIBGRAPH - 2018)* Jose Abel Ticona, David S. V., Rafael T., Luciana N., Anderson M.
- OCT 2018 Evaluation of Visual, Auditory and Vibro-Tactile Alerts in Supervised Interfaces. *SYMPOSIUM ON VIRTUAL AND AUGMENTED REALITY*. Jose Abel Ticona, Gabrielle A. S., Laura A. T., Vinicius S. D., David S. V., Anderson M., Luciana N.
- MAR 2018 3DAthlon: 3D Gestural Interfaces to Support a 3-Stage Contest in VR. *Conference: 2018 IEEE Conference on Virtual Reality and 3D User Interfaces*. Jose Abel Ticona, Jerônimo G. G., Henrique G. D., Juliano F., Victor O., Gabrielle S., Izadora B., Steeven V., Luciana N., Anderson M.

SKILLS

- Programming: C/C++, C#, Java, Php, Python, Javascript, OpenGL, OpenMP, CUDA.
- Design and Development of software architectures, and experience with Java Platform Enterprise Edition (servlet, jsp, jsf, cdi, jpa, ejb).
- Web programming full stack HTML5, JavaScript, Css3, Websocket, WebGL, JQuery, AngularJS, VueJS, Material Design, MongoDB.
- other: Git, MATLAB, L^AT_EX, UNITY, R-STUDIO, ARDUINO.
- Language: Spanish (Native), Portuguese (advanced), English (basic).