

Malcolm Davis

www.malcolmdavis.xyz

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Education

2012 – 2019 **Instituto Tecnológico de Costa Rica**, Cartago, Costa Rica

www.tec.ac.cr

- Licenciatura in **Computer Engineering**. Coursework included, among others, Circuit Analysis in AC and DC, Computer Architecture, Logic Design, Digital Design, Image Signal Analysis, Algorithms, Data Structures, Compilers, a wide range of maths and sciences courses and Entrepreneurship.

Experience

1/2018 – Present **Costa Rica's National Center for High Technology** : Research Assistant

[CeNAT](#)

- Right now researching on object oriented parallelism and clusters benchmarking.

6/2017 – 2/2018 **GoTouch**: App Developer

[GoTouch](#)

- Maintained and developed an educative mobile video game that teaches math to kids in early ages. The app is being tested to find possible bugs so the first version can be uploaded to the Play Store.

8/2016 – 1/2018 **Nabit**: Co-founder and CTO

- **Co-founded** Nabit, a research and development company that creates technology that eases the work of people who are making efforts to help the environment in different ways.
- Lead the **H&S development team** to research and develop a wildlife investigation camera that meets the unmet needs of wildlife researchers, at half the price. We developed a prototype that uses LoRa(RF) to transfer data on a sensor network through the jungle into a **GSM** gateway.

3/2015 – 6/2017 **Tecnológico De Costa Rica**: Physics Course Assistant

- **Developed** a mobile assignment grading system, that halved the revision and report time, also constructs feedback of the average behavior of the students with auto generated statistics.

Activities & Leadership

2018 **[Chair, IEEE TEC Branch](#)**: Elected at the end of 2017, plan to help members take advantage of their membership. This by the use of tech to give more exposure of the things we make at the branch.

2017 **[Professor, Parque la Libertad, CIJ](#)**: Volunteer as a professor on a social action project that promotes culture and hope developing Tech Skills on kids at social risk. After learning the basics, each kid choose an Arduino project to build from scratch and they can explore different technologies with our guidance.

2017 **[Vice-Chair, IEEE Computer Society, Tec Branch](#)**: Co-Founded the Computer Society Chapter on the IEEE TEC CR branch. Won the [2017 Outstanding CS Chapter Award](#). Imparted workshops and lectures like "Introduction to MPI", "GIT 101" and "How to get a job at big 4" to more than 100 people.

2017 **[NASA SPACE APPS CHALLENGE](#)**: Mentored the 16 Costa Rican teams on subjects like software and hardware prototyping and business. This is an international NASA organized hackathon that occurs over 48 hours in cities around the world, to address challenges we face on Earth and in space.

2016 **[ICPC-ACM](#)**: Qualified to regional semifinals leading a team of 3 Computer Engineering students, until we were forced to resign due to a member's personal issue.

2016 **[Hardwarethon](#)**: Lead a team of 4 members of different disciplines on the construction of the first prototype of a wildlife camera that meets the needs of the investigators, this in only 48 hours straight. We got the organizers attention and created a company around that product.

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2016 [Integratec Mentoring Program](#): After being selected in the program, guided some of the Costa Rican Institute of Technology CE freshmen to incorporate to college life.

Skills

- Spanish – Native Language, English – Fluent (B2).
- Python, C/C++, JAVA – Most used on personal and college projects.
- HTML, CSS, JS – Watch my made from scratch personal webpage malcolmdavis.xyz.
- Teaching and Oratory – Enjoy sharing the knowledge with my pairs.
- Software Requirement Elicitation and System Design – Learned on college and with a college project.
- Used different Project Management tools and Methodologies on personal and college projects.
- Circuit Analysis and Design – Learned in college and then practiced on personal projects.
- ATmega & Raspberry Pi Prototyping – Mainly the ones I used to prototype my personal projects.
- Basketball and Music Enthusiast – Right now training with the college team and rehearsing percussion.
- Among others – For a closer to full view see <http://malcolmdavis.xyz/#Skills>.