

# International Experience During the Undergraduate Course

#### Bárbara Resende Rosado

Master Student brosado@dsee.fee.unicamp.br

DSE/FEEC/UNICAMP

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## Outline

- University of Campinas (Campinas, Brazil)
- School of Electrical and Computer Engineering (FEEC)
- Undergraduate research
- Opportunity abroad
- Ryerson University (Toronto, Canada)
- Some activities
- Achievements
- Some links

## University of Campinas (Campinas, Brazil)

- A state-funded university in Campinas (Sao Paulo state foundation 1966)
- Budget: U\$ 1.5 billion (state 2/3 + external funds 1/3)
- Students: 35,000 (19,000 undergrad/16,000 grad)
- Faculty members: 1,900 (99% with a Ph.D. degree)
- 2nd patent leader in Brazil
- 2nd position in the QS University Ranking Latin America
- 1st position in the Times Higher Ranking Latin America
- 250+ surviving spinoff companies (20,000+ jobs)

## School of Electrical and Computer Engineering (FEEC)

- 70+ faculty members
- Six major areas: energy, control, telecom, computer, biomedical and electronics
- Undergrad
  - current: 900+
  - past: 4500+ (3500+ EE; 1500+ CE)
- Grad:
  - current: 600+
  - past: 3000+ (15% of all Brazilian Ph.D./year)
- 47th position QS World University Rankings by Subject 2015 electrical & electronic engineering

## **Undergraduate Research**

- Usually one-year project under supervision of a Dr. at the University
  - A gateway to undergrad students start involving to research
  - It is not mandatory in the undergraduate course
- Grant to develop the project
  - PIBIC, SAE, FAEPEX, FAPESP,...
  - The student and the supervisor have to submit a project and apply for the grant
    - The student, the supervisor and the project are evaluated
    - The student has to have good academic performance in order to get the grant

## **Opportunity Abroad**

- Students who have Undergraduate Research Project with FAPESP support can apply for an internship abroad in other University/Research Centre during the project in Brazil
  - Subproject of the main research project in Brazil
  - Evidence that the internship abroad will contribute to the project under development in Brazil
- The University/Research Center abroad has to have excellence in its area
- One of the only exchange between Universities for Brazilian undergraduate students related to research

## Ryerson University (Toronto, Canada)

- 125 research institutes and labs
- Over 45,000 students
- 100+ undergraduate and graduate programs
- 133 partner universities in 37 countries
- 20 Canada research chairs
- 900 affiliated and adjunct graduate faculty
- 2nd on National Reputation Ranking by Maclean's magazine (2015)
- Centre for Urban Energy (CUE)
  - \$ 29.4M funding
  - 71 projects
  - 33 startups

## **Activities**

#### Researchmities

- Industrial Projects
- Conferences Ryerson President
  - Discovery Bill Morneau,
  - MESJUEFOWERAnce
- Workshepshillips,
  - Ontarie's Minister of Finance
     Clean Energy Zone:
  - Steptleery Bloff podasight
- Deputy Mayor of Toronto

  - Merrilee Fullerton,
    Mr. Praveer Sinha, Colleges and Universities Obtario Minister of Training, Colleges and Universities CEO & Managing Director of Tata Power



### Achievements

- Technological competence
- Global awareness
- Entrepreneurship
- Creativity
- International collaboration





- Life in another country
- Challenges
- Independency

### **Some links**

- <u>https://www.inova.unicamp.br/premioinventores/2019/07/campea-pelo-segundo-ano-consecutivo/</u>
- <u>https://www.inova.unicamp.br/premioinventores/wp-content/uploads/2019/07/inventoresweb.pdf</u>
- <u>https://www.ryerson.ca/cue/news-events/blog/2019/07/brazilian-masters-students-reflect-on-six-months-well-spent-in-canada/</u>
- https://www.ryerson.ca/news-events/news/2019/06/bold-researchbetter-cities/
- <u>https://www.ryerson.ca/cue/news-events/blog/2019/07/experts-share-knowledge-on-future-of-energy-storage-at-nest-week-2019/</u>
- <u>https://www.unicamp.br/unicamp/</u>
- https://www.fee.unicamp.br/
- https://www.ryerson.ca/cue/

# Thank you!







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