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# Kirill Cheiko

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## Skills

- Software proficiency
  - Microsoft Office (Word, Excel, PowerPoint, Visio) and SigmaPlot
  - JMP Design of Experiments software
  - Supervisory Control And Data Acquisition (SCADA) process control software
  - EnviroSim's BioWin Wastewater Process Simulator and Aspen HYSYS
  - Programming: Visual Basic, Pascal, Delphi, C++, C#, JavaScript
- Excellent comprehension of engineering principles obtained through computer simulations, mathematical analysis, laboratory work and solution of practical problems
- Familiar with various aspects and issues in the environmental services field, particularly waste management, water and wastewater treatment
- Extensive experience with analytical techniques and methods, such as gas chromatography, spectrophotometry and x-ray diffraction
- Keen interest and in-depth understanding of biochemistry obtained through work with cell cultures
- Great communication skills, developed through writing numerous reports, presenting and networking
- Excellent team player and an efficient worker with positive attitude and eagerness to learn

## Design Projects

### **Plant Design - "Wastewater Treatment Plant capable of removing pharmaceuticals and endocrine disruptors"** 2009-2010

- Aspects addressed: technology survey and selection, equipment sizing, economic analysis, process control and safety considerations
- Winning project at Ryerson Engineering Competition 2010 in Innovative Design category
- Winning project at Ontario Engineering Competition 2010 in Social Awareness category

### **WEAO Student Design Competition 2009/10 - "Proposal for the expansion of Port Darlington WPCP"** 2009-2010

- Winning project at 2010 WEAO conference
- Designed biosolids handling process, secondary clarification and process control. Assisted with design of BNR reactors
- Modelled the plant using BioWin to confirm the predicted removal rates and optimize the process
- Collaborated with industry professionals, manufacturers and vendors

## Education

### **Ryerson University, Toronto** 2005-2010

- Bachelor of Chemical Engineering (Co-op)
- Dean's List for 2009/2010 Academic Year
- Related courses: Reactor Design, Water and Wastewater Treatment, Biochemical Engineering, Transport Phenomena, Process Control, Process Optimization

**Experience Sanofi Pasteur – Technologist (Cell and Viral Platform)**

January 2009– August 2009

- Maintained and expanded various cell cultures
- Designed and implemented experiments for process optimization
- Successfully performed 15x scale-up of the cell growth process
- Performed numerous analytical tests
- Carried out set-up and maintenance of bioreactors and analytical equipment

**Ingenico Service Center – Quality Control/Electronics Technician**

May 2008– August 2008

- Tested and repaired defective debit pin-pads and performed quality tests before sending equipment to shipping
- Applied organizational techniques to distribute defective terminals flow between a group of testers
- Suggested and then used a testing method which increased production by ~30%
- As a member of a team, quickly learned from more experienced technicians, and passed the knowledge to new employees

**Lakeview Wastewater Treatment Plant – Technical Analyst**

May 2007– December 2007

- Used engineering principles and creative approach to solve design and operational problems with IFAS media pilot
- Represented management during a number of visits by committees, movie and photo crews
- Performed a wide range of laboratory tests including: percent solids, soluble phosphorus, pH, oxygen uptake rate, MLSS and COD
- Extensively utilized Microsoft Excel to organize and report data, create charts and graphs, and perform various calculations

**United Parcel Service (UPS) - Trainer/Supervisor**

January 2005– August 2005

- Trained over 30 new employees to be safe, considerate and efficient
- Overcame numerous time-management challenges by supervising a group of 6-14 employees
- Received various recognition letters

**Highlights**

- Member of Golden Key Honour society
- Member of Water Environment Federation and Water Environment Association of Ontario
- Fluent in English and Russian
- Interested in World politics and history
- Great interest and extensive abilities with computers and electronics
- Active participant of hockey, soccer, tennis and water polo

**References** Available upon request