

The Future of Education is Open



Charlie Reisinger
Penn Manor School District

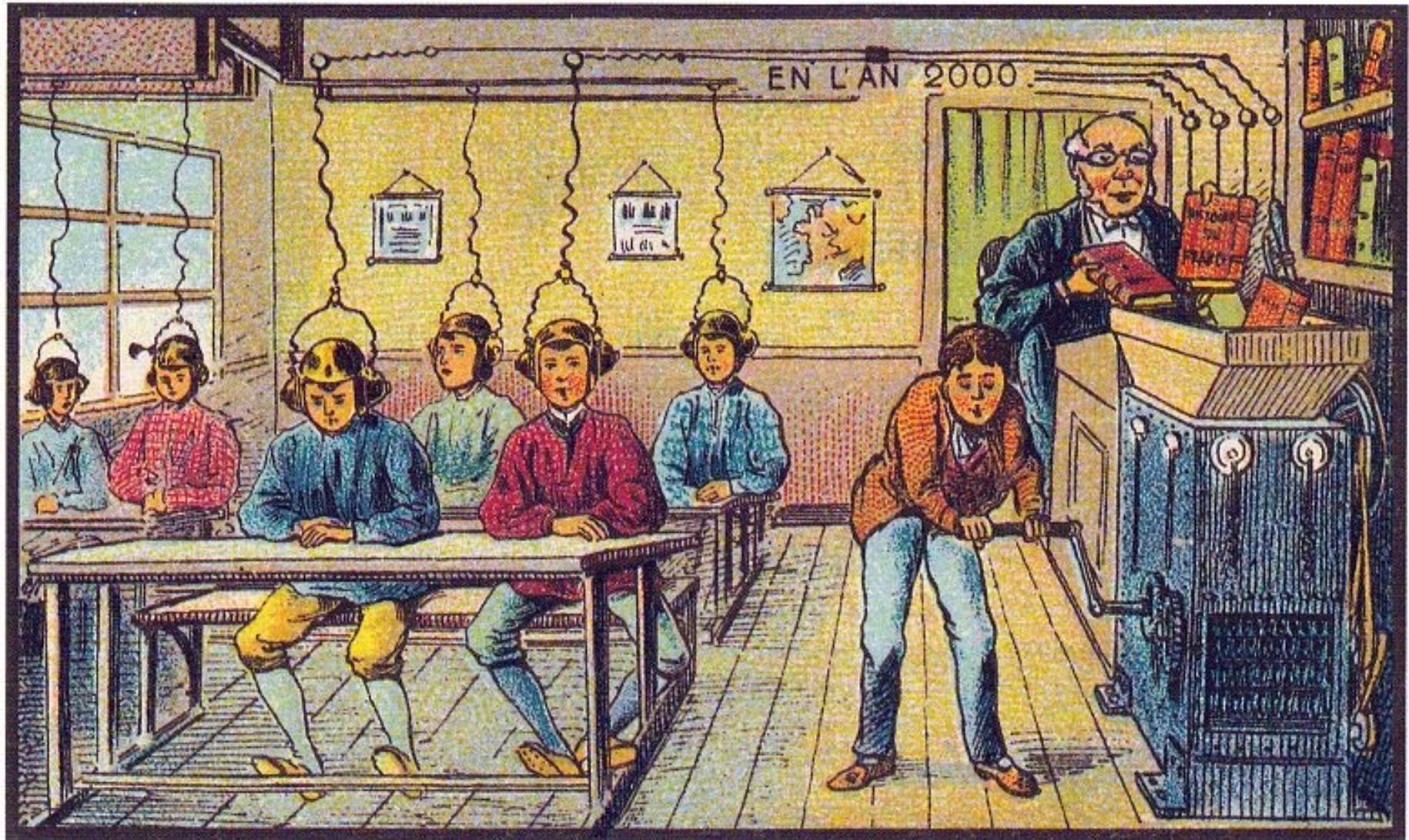
PENN MANOR HIGH SCHOOL



www.pennmanor.net



@charlie3 @cposc #cposc2017



At School

A 19th-Century Vision of the Year 2000
<http://publicdomainreview.org/2012/06/30/france-in-the-year-2000-1899-1910/>

EDTECH BUSINESS

This Company Wants to Gather Student Brainwave Data to Measure 'Engagement'

By Sydney Johnson Oct 26, 2017



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High School Class of 2018



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47% Percent of U.S. jobs
susceptible to automation.

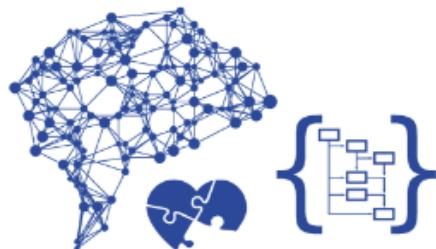
AI, ML, Robotics: 4th Industrial Revolution

<http://www.oxfordmartin.ox.ac.uk/publications/view/1314>

Top 10 skills

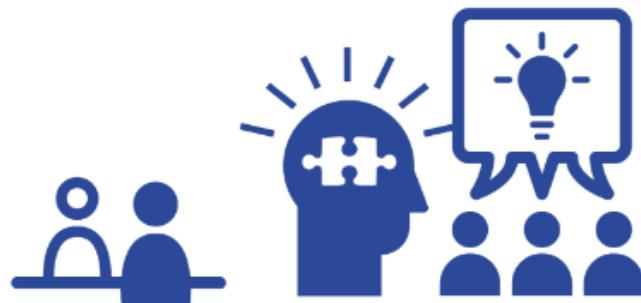
in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

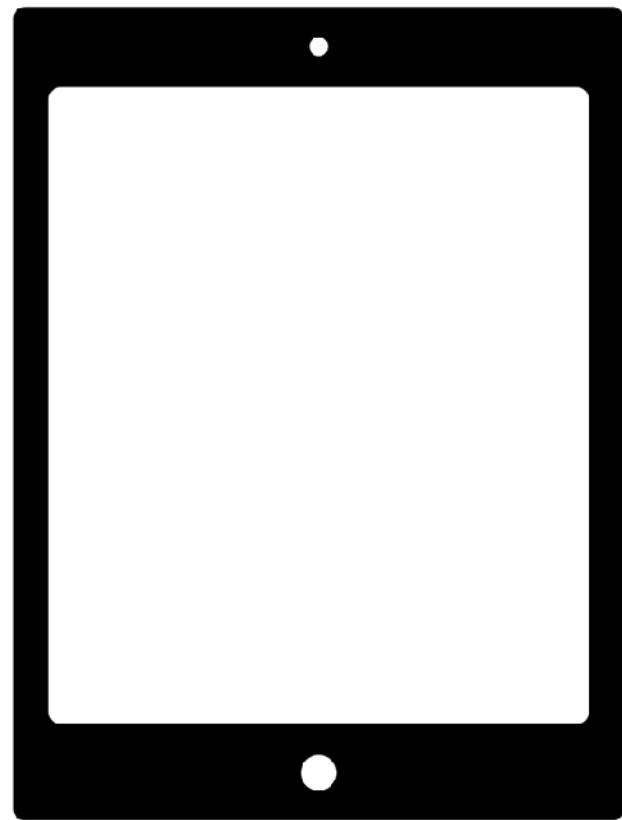


in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



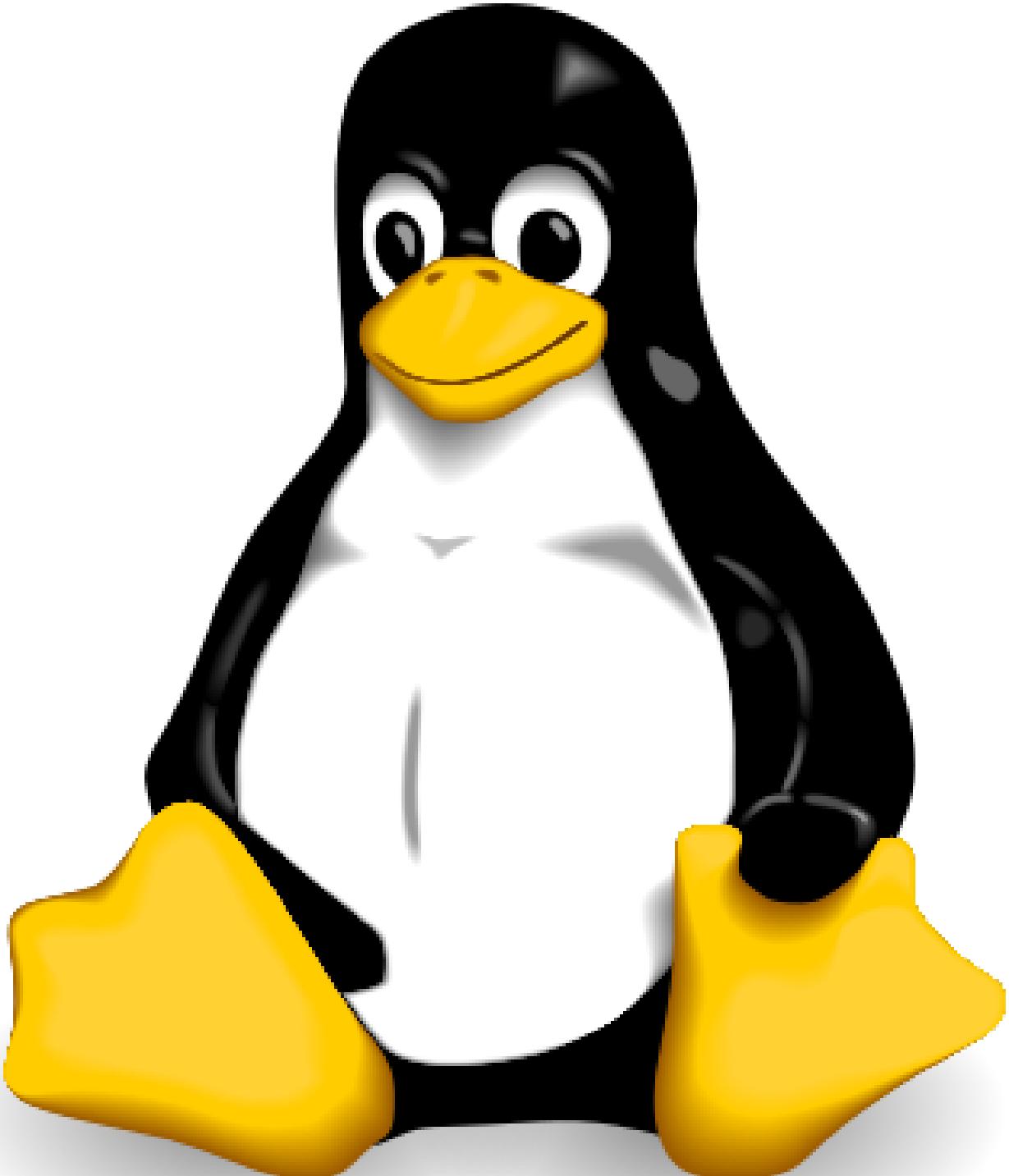
Source: Future of Jobs Report, World Economic Forum



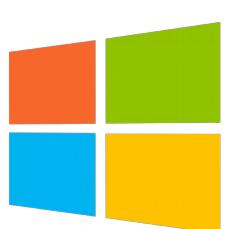
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 chromebook



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| what | where |
|--------------------------------|---------------------|
| linux | PA |
| job title, keywords or company | city, state, or zip |

[Find Jobs](#)

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linux jobs in Pennsylvania

Sort by: **relevance** - [date](#)

Salary Estimate

\$65,000 (1662)
\$80,000 (1347)
\$85,000 (1156)
\$95,000 (738)
\$105,000 (391)

Job Type

Full-time (1757)
Contract (195)
Part-time (76)
Internship (23)
Temporary (18)

Location

Philadelphia, PA (469)
Pittsburgh, PA (409)
King of Prussia, PA (177)
Malvern, PA (52)
University Park, PA (37)
[more »](#)

Company

Lockheed Martin (134)
Liberty Personnel Services (43)
Comcast (41)
Penn State University (39)
The University of Pittsburgh (31)
[more »](#)

Experience Level

Mid Level (870)
Entry Level (502)
Senior Level (273)

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Jobs 1 to 10 of 1,975

Linux Network Engineer

Linode - Philadelphia, PA

Experience with software network tools such as iptables, Linux IPVS, ExaBGP, and HAProxy. We are currently seeking a Linux Network Engineer who will collaborate...

Sponsored - [save job](#)

Dev Ops Engineer

TARGET - ★★★★☆ 26,549 reviews - Pittsburgh, PA

With millions of store and online guests daily, Target is now leading the effort in tearing down the walls between the traditional brick-and-mortar and web...

Sponsored by Target Corporation - [save job](#)

Software Design Engineer - Embedded Linux

Cummins Allison - ★★★★☆ 15 reviews - Bensalem, PA 19020

Product Development - Embedded Linux. Experience developing Linux applications, libraries, HAL. Knowledge of Linux device drivers a plus....

Sponsored - [save job](#)

Linux RedHat Admin

Xtensecurity - Philadelphia, PA 19103 (Belmont area)

Linux Admin- Sr. Linux Admin (Redhat Clustering). RHEL Linux Administrator (Chef, Puppet) I have an excellent client that is seeking a strong Linux...

18 days ago - [save job](#) - [more...](#)

Senior Linux Systems Engineer

Global Pharmatek - Wayne, PA 19087

The Senior Linux Systems Engineer is a strong, highly visible Linux systems engineer responsible for ensuring world class engineering support for IT Operations...

9 days ago - [save job](#) - [more...](#)

IT Systems Engineer - Linux

QVC - ★★★★☆ 754 reviews - West Chester, PA

Redhat Enterprise Linux required. 2+ years or more of experience with administration of Linux

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Company with linux jobs



Linode

Linode is a leading cloud hosting provider with 150,000 customers worldwide.

[Linux Network Engineer](#)

[Linux Technical Support](#)

[Jobs \(16\)](#)

[Reviews \(1\)](#)

[Photos \(1\)](#)

[Salaries \(1\)](#)



Mattermost



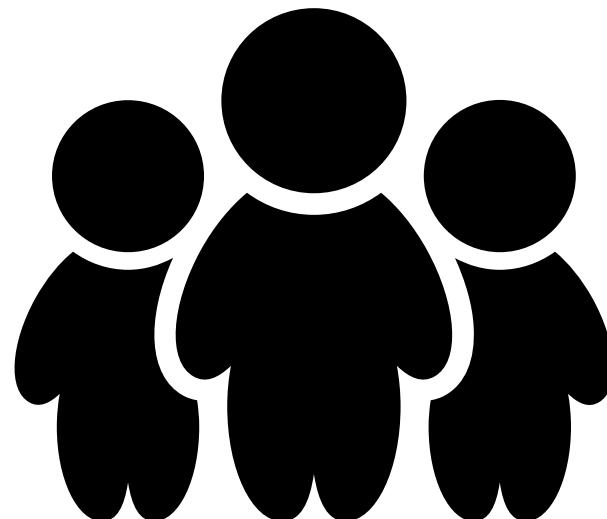
| Free & Open Source Software | Commercial Software | Yearly Savings Penn Manor SD |
|--|----------------------------|-------------------------------------|
| Linux on servers | Windows | \$10,000 |
| Koha Library System | Follett Destiny | \$10,000 |
| Moodle LMS | Blackboard, Schoology | \$20,000 |
| WordPress | Schoolwires website | \$20,000 |
| NextCloud | Crashplan, Dropbox | \$5,000 |
| Mattermost | Slack, MS Lync | \$30,000 |
| sipXecs | Avaya, Cisco | \$15,000 |

One-to-One Program

All students 7-12

Pilot 5-6

2800 Linux Laptops





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**\$360,000
Saved**

**No Windows
No MS Office
No Anti-virus**

```
admin@school:~$ sudo ./Embrace_Open.sh
```

Students have
admin accounts.



musescore



INKSCAPE



Scribus
Open Source Desktop Publishing



GeoGebra



SCRATCH

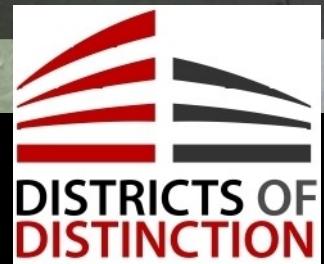




Professional Development

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Student Help Desk





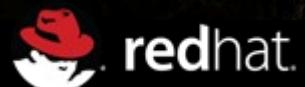
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The background of the slide features a wide-angle photograph of a rural sunset. The sky is a gradient from deep blue at the top to warm orange and yellow near the horizon. A large sun is visible on the right side, casting a bright glow and lens flare across the scene. In the middle ground, there's a white barn with two dark silos to its left, situated in a green field. The foreground is a dark, out-of-focus area that looks like a grassy field or a path.

OPEN SOURCE STORIES

PENN MANOR

The power of open in education



www.pennmanor.net
theopenschoolhouse.com

@charlie3

charlie@pennmanor.net

Image and Photo Credits

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Charlie Reisinger & Penn Manor School School District
Red Hat Open Studio

